FINAL REPORT

STERILITY TESTING AND ANTIMICROBIAL ACTIVITY OF COMMERCIAL GRADE GLYCERINE

Prepared for

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Ву

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Final Report

Subject:

Sterility testing and antimicrobial activity of commercial grades of glycerine.

Objectives:

- 1. To demonstrate the absence or presence of microbial contamination in commercial grades of glycerine (95% and 99%) at the site of production.
- 2. To determine the bacteriostatic and bactericidal activity of glycerine against selected bacteria.

The Program

Phase I: Under a grant from the Glycerine Producers'
Association a study was undertaken to demonstrate the presence or absence of microbial contamination in 60 samples of commercial grade (95% and 99%) glycerine. Ten samples from each of six producers, collected from drums and tank cans, were forwarded for analysis by the sponsor.

Phase II: The antimicrobial activity of commercial grade glycerine was investigated to determine the concentrations necessary for inhibition (bacteriostatic) and death (bactericidal) of selected bacteria (Staphylococcus aureus, Pseudomonas aeruginosa, Escherichia coli, and Salmonella typhimurium) as specified in USP standards.

Phase One - Sterility Testing

Basically the sterility testing employed in this study consisted of innoculating aliquots of glycerine into two non selective nutrient media, i.e., Trypticase soy (BBL) and Thioglycollate broths (Difco). These media were selected because of their ability to initiate and support the growth of minimal numbers of a wide variety of organisms. Thioglycollate broth provides the necessary conditions for growth of most of aerobic, facultative, and anerobic organisms; while Trypticase soy broth is an enrichment medium capable of supporting growth of most organisms commonly found in the environment.

Control Systems:

Two samples from each Producer were randomly chosen and used in the substrate to determine the ability of the glycerine-media system to initiate and support growth of a minimal number of cells comparable to that which may be found in the test product. The test organism employed for this positive control system was a strain of Pseudomonas fluorescens (A.T.C.C. #11250) selected because it is non fastidious, survives on minimal nutrients and is relatively resistant to chemical disinfection. Cultures were maintained by weekly transfers on Trypticase soy agar. Twenty-four hour broth cultures of this organism were used as innoculum. All of the tubed media were tested for sterility by incubation at 37°C. for 24 hrs. prior to use. This pre-incubation minimized the false positive results from contaminated media.

To test the positive control system tubes containing 9.6 ml of media, to which glycerine was added in both 1 ml and 5 ml amounts, were innoculated with decimal dilutions of the test organism ranging from 3800 to 2.6 organisms. All of the glycerine-media tubes were shaken twenty-five times in a ninety degree arc to insure an even suspension of the glycerine. Concurrently, tubes containing 9.6 ml of media without glycerine were innoculated as above to demonstrate that growth of the test organism at a particular concentration could be initiated in the media. Unseeded media controls were also incubated at each temperature to demonstrate

sterility of this component. All of the above controls were incubated in duplicate at 20°C. and 37°C. for fourteen days. Daily observations were made to determine presence or absence of growth.

In all cases sterility was observed in the unseeded tubes of media. Likewise, growth of the test organisms in both media incubated at 37°C. but not at 20°C. was observed within 24 hrs. Table I shows results obtained when the seeded glycerine was incubated at 20°C. and 37°C. for fourteen days. In general the growth observed in tubes containing 1 ml of glycerine correlated with the innoculated tubes containing no glycerine. In other words it was demonstrated that an innoculum in the range of 2.6 cells survived and flourished in an environment comprised of one ml of glycerine and 9.6 ml of media. The tubes containing 5 ml of glycerine were inhibited by the glycerine to varying degrees dependent upon the number of organisms present.

Sterility Tests:

Having satisfied ourselves with an adequate system which initiated and supported growth of a minimal number of organisms sterility tests were conducted in the following manner: Trypticase soy and Thioglycollate broths were seeded with both 1 ml and 5 ml aliquots from all glycerine samples from each producer. In other words four tubes of Trypticase soy broth and four tubes of Thioglycollate broth were innoculated with 1 ml and 5 ml of each sample of glycerine.

Two tubes with each aliquot were then incubated at 37°C. and at 20°C. for fourteen days and observed daily for growth.

One hundred-sixty tubes were used to test a set of ten samples from each producer and a total volume of 48 ml of each sample was tested.

The tubes from four samples of each producer which showed no growth after fourteen days of incubation were reseeded by loop into their respective media and incubated as above. This was done to determine whether the negative growth observation was due to the absence of organisms in the original sample or due to inhibition exerted by the aliquot of glycerine that was tested. In short, what this technique accomplishes is to dilute the concentration of glycerine in the reseeded tube. The limitation of this test is that an extremely low concentration of microorganisms in the original may be missed on loop transfer to the second tube. However, as supported by the data in Phase II, it was demonstrated that 1 ml aliquots of glycerine were not inhibitory to the organisms employed.

Samples displaying one or more positive growth tubes after fourteen days were retested using the above described technique in order to confirm that the growth originated in the sample of glycerine and not by chance contamination. Positive tubes from the second test series were transferred to Trypticase soy broth for enrichment and incubated at the original temperature for 24 hrs. Following this they were streaked on Trypticase soy agar which was again incubated for 24 hrs. Isolated colonies were examined macro and microscopically for genus identification.

Results of Sterility Tests:

After completion of the entire sterility procedure it was concluded that one sample (8C) of the sixty exhibited microbial contamination. This conclusion is based on the fact that originally one of the two tubes which were seeded with one ml of this sample and incubated at 37°C. showed growth after four days. Likewise, growth after seven days at 20°C. was observed in a tube of Trypticase soy broth innoculated with five ml of this sample. Upon re-examination of the original sample, one tube of Thioglycollate broth, seeded with one ml of this sample showed growth after 24 hrs. at 37°C. To further verify our findings this sample was examined again and this time growth occurred after 24 hrs. at 37°C. in 2 tubes of Trypticase soy broth. The colonial characteristics of the isolated organism and gram stain microscopic observations indicated that this contaminant was "virtually" a pure culture of a gram positive spore forming rod of the genus Bacillus.

Occasionally growth was also observed in other tubes but upon retesting of the original sample no growth was ever observed. Negative findings of the second determination prompted us to conclude that the original growth was due to an occasional laboratory contamination. When one considers that a total of forty-eight tubes were used for each sample the chance of a contaminant is highly probable. Only one of the 59 remaining samples indicated more than one "false positive" tube.

PHASE II - EVALUATION OF

BACTERIOSTATIC - BACTERICIDAL PROPERTIES OF GLYCERINE

Samples of glycerine were tested for bacteriostatic and bactericidal activity against the following organisms:

Pseudomones aeruginosa A.T.C.C. #10145, Escherichia coli

A.T.C.C. #11775, Salmonella typhimurium A.T.C.C. #13311 and Staphylococcus aureus A.T.C.C. #12600.

Zone of Inhibition Test:

In a preliminary exploration the zone of inhibition test was used employing a modification of the cylinder-plate method in which a hole, which served as a reservoir for ca. 2 ml of glycerine, was cut in a heavily seeded Trypticase soy agar plate. Since no zone of inhibition was observed after 24 hrs. at 20°C. and at 37°C. the results indicated that glycerine was not inhibitory against the above organisms under the conditions of this test. Moreover, this chemical actually enhanced the growth of Escherichia coli as demonstrated by a heavier growth at the periphery of the reservoir. Realizing that the presence or absence (and also the diameter) of the zone of inhibition exhibited by the test organisms is dependent on the concentration of the chemical compound in the medium, it may be concluded that the findings of the preliminary study was the result of the rapid diffusion of the glycerine through the medium decreasing its concentration to a non-inhibitory range. For this reason a modified tube dilution technique was subsequently employed in further evaluation.

Multiple Tube Dilution Test:

A multiple tube technique (16 tubes per dilution) was used in which varying aliquots of glycerine and media, Trypticase soy broth, were combined. These aliquots along with the innoculation produced volume to volume dilutions ranging from approximately one percent to one hundred percent glycerine. The unusual percentages of glycerine reported herein were due to difficulty in pipetting the highly viscous chemical; e.g., a 10 ml pipette delivered only 9.5 ml of glycerine and this is reflected in the calculations. The tubes were then seeded with 0.1 ml of a 1:10 dilution of a 24 hr. broth culture of the respective organism. These tubes were shaken to a degree sufficient to insure an even suspension of the glycerine-medium system.

The seeded glycerine-medium tubes, with glycerine concentrations of 6.7% to 31.3% were incubated at 37°C. for fourteen days with daily examination for growth. Any tubes in which growth could be detected (no inhibition) were so indicated and discarded. After 48 hrs. all tubes showing inhibition were reseeded into Trypticase soy broth and reincubated 48 hrs. to determine whether the inhibition was due to bacteriostatic or bactericidal activity. These results summarized in Table II indicate that bacteriostatic-bactericidal differentiation could not be determined with the concentration of glycerine employed since all the reseeds were positive.

The above experiment was repeated using higher concentra-

tions of 23.6% to 98.9% glycerine. Again those tubes showing inhibition were reseeded after 48 hrs. Of the forty-eight hour reseeds, those tubes that showed growth demonstrated that bacteriostasis had occurred in the original tube which was again reseeded after seven days to determine if the culture was killed upon prolonged contact. Negative reseeds were recorded at 48 hrs. and observed for fourteen days. At no instance did a negative reseed become a positive during this period.

Results and Discussion:

As shown in Table III the concentrations of glycerine that can be considered bacteriostatic were those in which forty-eight hour reseeds indicated growth whereas those indicating no growth upon reseeding were considered bactericidal. It should be noted that this shift from bacteriostatic to bactericidal effect occurred in a range as indicated in Table III. Additionally the data also demonstrated that a bacteriostatic concentration of glycerine may become bactericidal upon prolonged contact with the organism. For example 37.8 percent glycerine was found to be totally (all 16 tubes) bacteriostatic for Salmonella typhimurium after forty-eight hours, while after seven days above 23.6 percent was found to be bactericidal. The data as tabulated in Table III also indicate a positive correlation between the concentrations of glycerine required for bacteriostasis with those for bactericidal activity, e.g., Pseudomonas aeruginosa was inhibited and

killed at the lowest concentrations while <u>Staphylococcus aureus</u> was inhibited at the highest concentrations. This phenomenon occurred both for the forty-eight hour and seven day reseeds.

The results of our study confirm in part those of Barr and Tice who demonstrated that Staphylococcus aureus and Pseudomonas aeruginosa were inhibited by 30 and 25 percent respectively of glycerine on a weight to weight basis. Table IV illustrates the similarity of the findings from both studies.

The data represented in the current study clearly indicate that there is great variation in susceptibility and/or resistance of the test organisms to glycerine. This would indicate that the use of glycerine as a preservative for clinical specimens may require some re-evaluation even though the concentration of glycerine used for this purpose is lower than that employed in this investigation. After forty-eight hours of incubation Salmonella typhimurium and Escherichia coli demonstrated equal susceptibility to the bacteriostatic concentration of glycerine while the Salmonella typhimurium displayed greater susceptibility to the bactericidal concentration. These observations together with the stimulatory effects of glycerine on the growth of Escherichia coli demonstrated by the zone of inhibition test suggest that caution be taken when using glycerine as a preservative for fecal samples from which the isolation of Salmonella is desired.

Barr, M. and Tice, L., A study of the inhibitory concentrations of various sugars and polyols on the growth of microorganisms. J. Pharmaceutical Assn., 46 (4):219-221.

Conclusions

- 1. Of the sixty samples of glycerine tested only one (8C) was found to be contaminated under the conditions of the test employed. This contaminant was identified as a member of the genus Bacillus. Since the investigators had no control over either the sterilization of the containers in which the samples were collected and shipped or the actual collection, the source of this contaminant could not be ascertained.
- 2. Glycerine was found to be bacteriostatic and bactericidal at various concentrations against <u>Pseudomonas aeruginosa</u>, <u>Escherichia coli</u>, <u>Salmonella typhimurium</u> and <u>Staphylococcus</u> aureus.
- 3. A positive correlation was found between the bacteriostatic and bactericidal concentrations of glycerine against the test organisms.
- 4. The use of glycerine as a preservative of clinical samples which are to be analyzed for Salmonella and other pathogenic enteric organisms should be re-evaluated in light of our limited data.

Table I. Positive Control System

Average Number of Cells Innoculated Per Tube

	Th	ioglyc	ollate	Tr	Trypticase soy						
Producer A	3800	380	38	3.8	3800	380	38	3.8			
Sample 8A 37°C. 1 ml 5 ml	1 3	1 -	<u> </u>] -	1 3	1 ~	1 -	2 -			
20°C. 1 m1 5 m1	5 -	7 -	-	- -	6 -	7 -	-				
Sample 4A 37°C. 1 ml 5 ml	1 5	1 -	1 -	2 -	1 5	1 5	2	2 -			
20°C. I ml 5 ml	5 -	7 -	11		5 -	5 -		-			
Producer B Sample 2B	3400	340	34	3.4	3400	340	34	3.4			
37°C. 1 ml 5 ml	1 -	2	2	- -	1 -	2 -	2 -	-			
20°C. 1 ml 5 ml	7 -	7 -	8 -	- -	7 -	7 -	7 -	-			
Sample 10B 37°C. 1 m1 5 m1	1 -	1 ~	1 -	-	1 -	1 -	2	2			
20°C. 1 ml 5 ml	5 -	7	-	<u>-</u>	5 -	7		-			
Producer C Sample 1C	2600	260	26	2.6	2600	260	26	2.6			
37°C. 1 ml 5 ml	1 2	2 2	2 -		1 2	1 2	2 -	-			
20°C. 1 ml 5 ml	4 -	6 -	-	- -	5 -	5 -	-	-			
Sample 10C 37°C. 1 ml 5 ml	1 2	2 2	2 -	- -	1 2	1 2	1 2	1 -			
20°C. 1 ml 5 ml	7 -	8	-	-	5 -	5 -	-	- -			

Number indicates day on which growth was observed.

⁻ indicates no growth for fourteen days.

Table I (Continued)

Average Number of Cells Innoculated Per Tube

	Th	ioglyc	ol l at	e	Trypticase soy						
Producer D Sample 4D	3200	320	32	3.2	3200	320	32	3.2			
37°C. 1 m1 5 m1	1 -	1 -	1 -	2	1 3	1 6	1 -	2 -			
20°C. 1 m1 5 m1	6 -	9 	- -	-	4 -	6	8 -				
Sample 7D 37°C. 1 ml 5 ml	1 ~	1 -	2 -		1 9	1 -	-	ma ma			
20°C. 1 m1 5 m1	6 -	9 -	***	-	5 -	6 -	8 -	-			
Producer E Sample 10E	2800	280	28	2.8	2800	280	28	2.8			
37°C. 1 m1 5 m1	1 -	1	1 ~	1 -	1 -	1 -	1 -	1 -			
20°C. 1 m1 5 m1	4 -	8 -	8 -	9	4 -	5 -	8 -	9			
Sample 3E 37°C. 1 m1 5 m1	1 -	1 -	1 -	1 -	1 -	1 -	1 -	1 -			
20°C. 1 m1 5 m1	4 -	8 -	8 -	8 -	4 	5 -	7 -	9			
Producer F Sample 7F	3600	360	36	3.6	3600	360	36	3.6			
37°C. 1 m1 5 m1	1	1 -	1 -	7 -	1 -	1 -	1 -	1 -			
20°C. 1 m1 5 m1	8	8	9 -	11 -	4 -	6 -	8 -	9 -			
Sample 1F 37°C. 1 ml 5 ml	1 -	1 -	Ţ -]	1 3	1 -	1 -] -			
20°C. 1 m1 5 m1	7 -	8 -	9 ~	10	6 -	6 -	8	9 -			

Number indicates day on which growth was observed.

- indicates no growth for fourteen days.

Table II
Inhibitory Effects of Glycerine

Test Organism	Percentage glycerine V/V indicating										
	No Inhibition	Total Inhibition ²	Growth in Reseeds ³								
Staphylococcus aureus	24.1	31.3	31.3								
Escherichia coli	13.4	24.1	31.3								
Salmonella typhimurium	13.4	24.1	31.3								
Pseudomonas aeruginosa	13.4	24.1	31.3								

- 1. No inhibition—all tubes at the concentration of glycerine demonstrated growth after 48 hrs. of incubation at 37°C.
- 2. Total inhibition—no growth for all tubes at that concentration of glycerine after 48 hrs. of incubation at 37°C.
- 3. Growth in Reseeds—all tubes demonstrating inhibition (no growth) were reseed after 48 hrs. contact. The concentration of glycerine that allowed growth for all tubes is shown.

Salmonella typhimurium

Pseudomonas aeruginosa

48.1

40.5

23.6

≤23.6

33.6

23.6

Test Organism 48 hr. reseeds 7 day reseeds Bactericidal² Bacteriostatic' Bacteriostatic Bactericidal None 67.8 ≤67.8 Staphylococcus aureus 88.8 Escherichia coli 37.8 58.6 ≤37.8 37.8

Table III

Bacteriostatic-Bactericidal Concentration (%) of Glycerine

I. Bacteriostatic--AII 38 hr. or 7 day reseeds at that concentration of glycerine demonstrated growth after 48 hrs. incubation at 37°C.

37.8

28.7

2. Bactericidal—No growth in 48 hr. or 7 day reseeds at that concentration of glycerine after 48 hrs. incubation at 37°C. (Observed for 14 days of incubation).

Table IV

Comparison of Concentration of Glycerine

Required for Inhibition

Barr and Tice (W/W)	Present Study V/V
30% 25%	31.3% 24.1%
	30%

Appendix I

Raw Data Phase I:
Sterility Testing

Contents of Appendix:

- 1. Data of sixty samples, ten apiece from each producer, coded A F.
- Control data 2 samples from each producer.
- Negative Reseeds 4 samples from each producer that showed no growth in the initial sampling.
- 4. Positive Reseeds All samples from which growth was isolated in the initial sampling were resampled.

Raw Data Producer A

CONTROL: TEMPERATURE: 51 COUNTROL: STEEL TEMPERATURE: 51 COUNT

١.	Trypticase Soy Broth:
	Date Media was made:
	24 Hour incubation:

Days (1-14)
A. Blank Control:

#1 #2

B. Control Dilutions-Seeded:

10-2 10-45 10-64 10-85

C. Seeded Dilutions-Glycerine-Iml:

10-8 2 10-6 3 10-7 4 10-8 5

D. Seeded Dilution-Glycerine-5 ml:

10-5 2 10-6 3 10-7 4 10-8 5

II. Thioglycollate Broth:

Date Media was made:_____ 24 Hour incubation:

Days (1-14)

Blank Control:

Α.

#1 #2

B. Control Dilutions-seeded:

10-² 10-⁴ ³ 10-⁶ ⁴ 10-⁸ 5

C. Seeded Dilutions-Glycerine-Iml:

10-5/2

D. Seeded Dilutions-Glycerine-5ml:

10-6/3

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CONTROL: 4/r TEMPERATURE: 37 C
IDENTIFICATION 4 A

CEII Count 3.8 x 10 5

۱.	Trypticase Soy Broth:
	Date Media was made:
	24 Hour incubation:
	Days (1-14)
Λ	Plank Control.

A. Blank Control:

#2

B. Control Dilutions-Seeded:

10-² 10-43 10-44 10-85

C. Seeded Dilutions-Glycerine-Iml:

10-\$ Z 10-\$ 3 10-7 4 10-\$ 5

D. Seeded Dilution-Glycerine-5 ml:

10-72 10-73 10-74 10-85

II. Thioglycollate Broth:

Date Media was made: 24 Hour incubation:

Days (1-14)

A. Blank Control:

#2

B. Control Dilutions-seeded:

10-2 10-43 10-44 10-85

C. Seeded Dilutions-Glycerine-Iml:

10-9 2 10-9 3 10-7 4 10-8 5

D. Seeded Dilutions-Glycerine-5ml:

10-\$2 10-\$3 10-74 10-\$5

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TEMPERATURE: 37 °C SAMPLE: I-A IDENTIFICATION: Trypticase Soy Broth Date Media was made: ____ 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 12 . 13 . 14 available) 10m1 #1 #2 5ml #1 #2 lml #1 #2 Thioglycollate Broth Date Media was made: ---24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is , 12 , 13 G 7 10 1.1 available) I Om I #1 #1 5ml #1 #2 1ml

£ 3

#1 #2

TEMPERATURE: 37 C SAMPLE: 24 IDENTIFICATION:_ 1. Trypticase Soy Broth Date Media was made. 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 12 13 114 available) 10ml #1 #2 5m1 #1 #2 Iml #1 #2 11. Thioglycollate Broth Date Media was made:____ 24 Hour Incubation: DAYS (1-14) SAMPLE , 12 (where supply is 10 11 , 13 ; 14 available) 10ml #1 #1 5ml #1 #2

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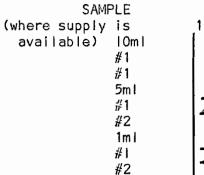
1m1 #1 #2 SAMPLE: 3A TEMPERATURE: 37°C

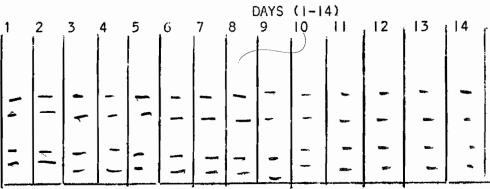
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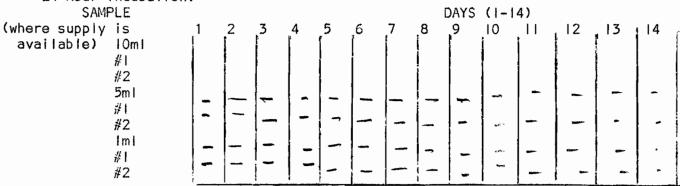
II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:





SAMPLE: 4A TEMPERATURE: 37°C

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II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

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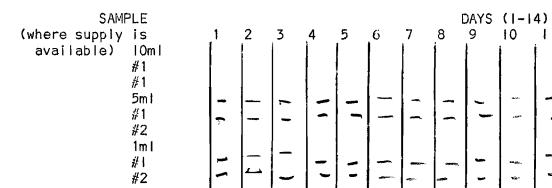
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, 12 , 13 , 14

II. Thioglycollate Broth Date Media was made: 24 Hour Incubation:



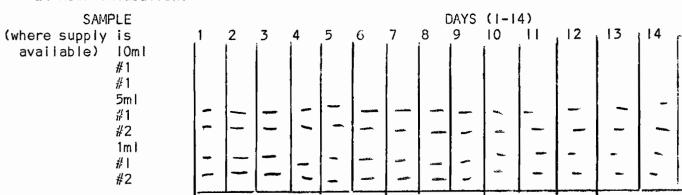
SAMPLE: 4 A TEMPERATURE: 37 °C

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made 24 Hour Incubation:

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SAMP	LE									DAYS	(1-14	4)				
(where supply	is	1	2	3	4	5	.6	7	8	9	10	11 ,	. 12	.13	14	i
available)	I Om I						ĺ		ĺ		i					
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II. Thioglycollate Broth
Date Media was made*
24 Hour Incubation:



SAMPLE: 74 TEMPERATURE: 37 C IDENTIFICATION:___ I. Trypticase Soy Broth Date Media was made:___ 24 Hour Incubation: DAYS (1-14) SAMPLE 12 . 13 ! 14 (where supply is 10 11 available) I Om I #1 #2 5m1 #1 #2 l m l #1 #2 II. Thioglycollate Broth Date Media was made:---24 Hour Incubation: SAMPLE DAYS (1-14) 12 (where supply is 6 8 10 11 , 13 , 14 available) I Om I #1 #1 5ml #1 #2 1ml

> #1 #2

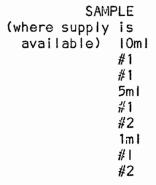
SAMPLE: SA TEMPERATURE: 37°C

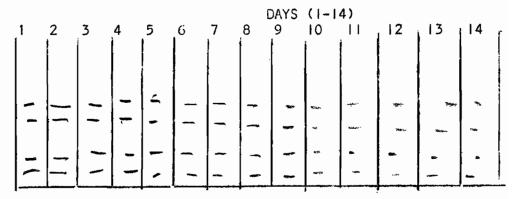
IDENTIFICATION:

I. Trypticase Soy Broth
Date Media was made:
24 Hour Incubation:

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II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:





TEMPERATURE: 37 °C SAMPLE: 94 IDENTIFICATION:_ I. Trypticase Soy Broth Date Media was made:---24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 12 10 11 available) 10ml #1 #2 5m1 #1 #2 lml #1 #2 Thioglycollate Broth Date Media was made:---24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 6 7 8 10 11 , 12 available) 10m1 #1 #1 5m l #1 #2 1ml # |

#2

SAMPLE: 10 A TEMPERATURE: 37 C

I. Trypticase Soy Broth
Date Media was made:——
24 Hour Incubation:

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II. Thioglycollate Broth Date Media was made+ 24 Hour Incubation:

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Reseeds
Types: Negative
Sample: /A
Temperature: 37°C

I. Trypticase Soy Broth: Date Media was made:—

II. Thioglycolate Broth Date Media was made: 24 Hour Incubation:

+2

Days

Hour Incubation	:			Days			
Sample:		2	3	4	5	6	7
5m1							
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+2	-	_	_	_	_	_	-
lml							
+1	_	_	_	_	_	_	_
+2	_	_		_	_	_	_

Regeeds

Types: Wegative

Sample: 3-A

Temperature: 37°C

Trypticase Soy Broth: Date Media was made: —

24 Hour Incubation:

Days

Sample:		1	2	_3	4	5	6	7
	5m I							
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Thioglycolate Broth
Date Media was made:

24 Hour Incubation:

Days

Sample:	1	2	3	4	5	6	7
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Reseeds

Types: Nogative

Sample: 7-4

Temperature: 37 &

Trypticase Soy Broth:
Date Media was made: —
24 Hour Incubation:

Media was H our Incu b		WAR.			Days			
Sample:		1	2	3	4	5	6	7
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Thioglycolate Broth

Date Media was made: -

24 Hour Incut Sample:

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Receeds Types: Negative

Sample: 10-A

Temperature: 37°C

Trypticase Soy Broth: Date Media was made:—
24 Hour Incubation:

Media was Hour Incub					Days			
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Thioglycolate Broth Date Media was made:-

Sample:

24 Hour Incubation:

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+1

+2

Iml

+1

+2

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	Date Media was made: —												
	24 Hour incubation:												
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11.	Thioglycollate Broth:	1						·		<u> </u>			
11.	Thioglycollate Broth: Date Media was made:	<u> </u>	-						<u> </u>	<u> </u>			
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11.	Date Media was made: 24 Hour incubation:	1 2	.3	4	5	6 7	, 8	9	10	11	12	13 1	4
	Date Media was made: 24 Hour incubation: Days (I-I4)	1 2	.3	4	5	6 7	. 8	9	10	' 11 1	12	13	4
11. A.	Date Media was made: 24 Hour incubation: Days (I-I4) Blank Control:	1 2	.3	4	5	6 7	8	9	10	11	12	13	4
	Date Media was made: 24 Hour incubation: Days (I-14) Blank Control: #!	1 2	.3	4	5	6 7	8	9	10	11	12	13	4
Α.	Date Media was made: 24 Hour incubation: Days (I-14) Blank Control: #! #2	1 2	.3	4	5	6 7	8	9	10	11	12	13	4
	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded:	1 2	.3	4					10	11	12	-	4
Α.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded:	1 2	.3	4	5		8	9 - +	10	11	12	13	4
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Α.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-13	1 2	.3		++	+	+	++	10	1 - + +	-	-	-
Α.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-43	1 2	.3		++	+	+		10 -	1 - + + +	-	-	-
Α.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-43	1 2	.3		++	+	+	++	10 + +	1 - + + +	-	-	+ + + + + + + + + + + + + + + + + + + +
Α.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-43	1 2	.3		++	+	+	++	10 + +	1 - + + +	-	-	-
А.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-43 10-45	1 2	.3		++	+	+	++	10 + + +	11 + + +	-	-	-
Α.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-43 10-45 10-85 Seeded Dilutions-Glycerine-Iml:	1 2	.3	+	++	++	++1)	1 + + + -	- + + +	- + + + -	+++	-	ナナサ
А.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-43 10-45 Seeded Dilutions-Glycerine-Iml:	1 2	.3	+	++	- ++ - +	- ++ 1	11 + + + 1 +	10 + + -	- + + + - +	-		-
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А.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-43 10-45 Seeded Dilutions-Glycerine-Iml: 10-32 10-43	1 2	.3 ++	+	++	- ++ - +	- ++ 1	11 + + + 1 +	- + + +	- + + + - +	+++ +		ナナサ
А.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #1 #2 Control Dilutions-seeded: 10-2 10-43 10-45 Seeded Dilutions-Glycerine-Iml: 10-3 10-43	1 2	.3 ++	+	++	- ++ - +	- ++ 1	11 + + + 1 +	- + + +	- + + + - +	+++		ナナサ
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А.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #1 #2 Control Dilutions-seeded: 10-2 10-13 10-45 10-85 Seeded Dilutions-Glycerine-Iml: 10-3 10-45 10-85 Seeded Dilutions-Glycerine-5ml: 42	1 2	.3 ++	+	++	- ++ - +	- ++ 1	11 + + + 1 +	- + + +	- + + + - +	+++ +		ナナサ
A. B.	Date Media was made: 24 Hour incubation: Days (1-14) Blank Control: #! #2 Control Dilutions-seeded: 10-2 10-43 10-45 10-85 Seeded Dilutions-Glycerine-Iml: 10-3 10-41 10-45 10-45 10-45 10-45	-	.3 ++	+	++	- ++ - +	- ++ 1	11 + + + 1 +	- + + +	- + + + - +	+++ +		+ +t) +++)
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CONTROL: 8 A
IDENTIFICATION
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TEMPERATURE: 200

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•	Trypticase Soy Broth: Date Media was made: 24 Hour incubation:							,							
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١.	Thioglycollate Broth: Date Media was made:														
	24 Hour incubation:														
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TEMPERATURE: 20 C SAMPLE: /A IDENTIFICATION: I. Trypticase Soy Broth Date Media was made:----24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 , 12 , 13 , 14 available) 10ml #1 #2 5m1 #1 #2 lm! #1 #2 Thioglycollate Broth 11. Date Media was made: 24 Hour Incubation: DAYS (1-14) SAMPLE

SAMPLE
(where supply is available) | IOml | #1 | #1 | 5ml | #2 | 1ml | #1 | #2

								L)N 1 3	11-1	47			
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TEMPERATURE: 20 C SAMPLE: 24 IDENTIFICATION: Trypticase Soy Broth Date Media was made:____ 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 . 12 . 13 ! 14 available) I Om I #1 #2 5m1 #1 #2 lm! #1 #2 Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAY\$ (1-14) (where supply is 5 6 7 , 12 8 9 10 11 13 14 available) 1 0m I #1 #1 5m1 #1 #2

> 1m1 #1 #2

SAMPLE: 34 TEMPERATURE: 20°C

IDENTIFICATION:

SAMI	PLE									DAYS	(1-14	4)			
(where supply available)	is IOml #I	1 	2	3	4	5	6	7	8	9	10		12	13	14
	#2 5ml														
	#1 #2	-	_	-	-	-	_	_	_	_	_	***	18860·	1	64
	lm∣ ∦∣	_	_	-	-	-			-	_	**	Mo-	287÷	ion-	
	#2	-	-	-	-			-	(<u> </u>		8v-	2 8₺	v	"

II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

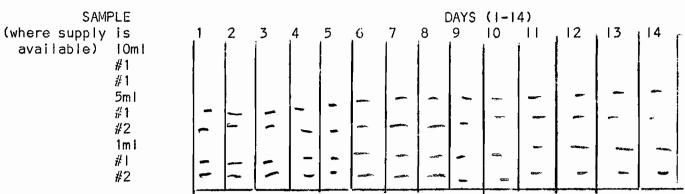
SAMI (where supply		1	2	3	4	5	6	7	8	DAYS 9	(1-1- 10	4) 	. 12 ;	. 13	14 .
available)	l Om l	[1	İ	Ì	ĺ			ĺ		į				
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	#2	_	-		-	-		.em-	~~		-	With	gge	30 .	*
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SAMPLE: 4A TEMPERATURE: 20°C

1. Trypticase Soy Broth
Date Media was made:
24 Hour Incubation:

SAMPLE								[DAYS	(1-1	4)				
(where supply is	1	2	.3	4	5	.6	.7	.8	9	10	11	. 12	. 13	14	·
available) 10ml	1		Ī	ľ	ſ	1		ļ		i	i :			1	
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II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

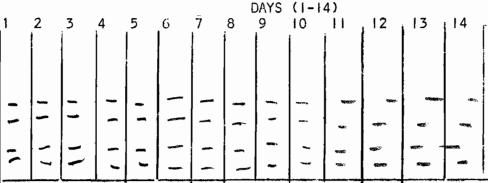


SAMPLE: 5A TEMPERATURE: 20°C IDENTIFICATION: I. Trypticase Soy Broth Date Media was made:-24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 12 10 11 available) 10ml #1 #2 5m1 #1 #2 Iml #1 #2 11. Thioglycollate Broth Date Media was made: --24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is , 12 6 8 10 11 available) 1 Om 1 #1

> #1 5ml #1 #2 1ml #1

SAMPLE: LA TEMPERATURE: 20°C IDENTIFICATION:____ I. Trypticase Soy Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 12 available) 10ml #1 #2 5m1 -#1 #2 1m1 #1 #2 11. Thioglycollate Broth Date Media was made:— 24 Hour Incubation: DAYS (1-14)

SAM	PLE
(where supply	is
available)	I Om
	#1
	#1
	5m l
	#1
	#2
	1ml
	#1
	412



SAMPLE: 7A TEMPERATURE: 20°C

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made+ 24 Hour Incubation:

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SAM	PLE									DAYS	(- 4	4)				
(where supply	is	1	2	3	4	5	6	7	.8	9	10	11.	. 12	. 13	14	ŗ
available)	I Om I	l			ľ	ĺ	Ì		ĺ		i					
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II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

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(where sup	ply	is
availabl	e)	10m l
		#1
		#1
		5m l
		#1
		#2
		1ml
		#1
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							(DAYS	(1-1	4)			
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TEMPERATURE: 20°C SAMPLE: 84 IDENTIFICATION:____ Trypticase Soy Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 12 10 11 13 114 available) J Om I #1 #2 5m1 #1 #2 lml #1 #2 Thioglycollate Broth Date Media was made:--24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 6 7 8 9 10 11 , 12 13 14 available) I Om I #1 #1 5m1 #1

1 3

1

¥ .

#2 1m1 #1 #2

TEMPERATURE: 20°C SAMPLE: 9升 IDENTIFICATION: 1. Trypticase Soy Broth Date Media was made:-24 Hour Incubation: SAMPLE DAYS (1-14) 12 (where supply is 10 - 11 available) I Om I #1 #2 5m1 #1 #2 Iml #1 #2 11. Thioglycollate Broth Date Media was made:---24 Hour Incubation: DAYS (1-14) SAMPLE 6 7 8 9 10 - 11 12 13 114 (where supply is available) I Om I #1 #1 5m1 #1 #2 1ml #1

#2

SAMPLE: 10 A TEMPERATURE: 20°C

1. Trypticase Soy Broth
Date Media was made:
24 Hour Incubation:

		•														
SAM	PLE									AYS	(1-1	4)				
(where supply	is	.1	2	ر3	4	5	6	.7	.8	9	10	11 .	. 12	. 13	14	
available)	I Om I				<u>'</u>	ſ	ĺ		į '		į	i ·				
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II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

SAMPLE
(where supply is available) | IOml #1 #1 5ml #2 1ml #1 #2

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Reseeds Types: Nogative Sample: 1-A

Temperature: 20°C

Trypticase Soy Broth: Date Media was made: —

Days 24 Hour Incubation: Sample: 2 3 5ml +1 +2 lm! +1 +2

Thioglycolate Broth
Date Media was made: — 11.

24 Hour Incu

e media was Hour Incuba		-			Days			
Sample:			2	3	4	5	6	7
<u>5</u> 1	m1							
	+1	•	_	-	1	1	_	_
	+2	_	1			-	-	
	m 1							
	+	_	-	-	_		_	_
	+2	_	-	-	-			

Receeds. Types: Wegative

Sample: 3-A

Temperature: 20°C

Trypticase Soy Broth: Date Media was made: —

Days 24 Hour Incubation: Sample: 2 3 5 6 5m1 +1 +2 lmi +1 +2

Thioglycolate Broth Date Media was made: -

24 Hour Incul

Hour Incuba	tion:				Days				
Sample:		i	2	3	4	5	6	7	_
	m I								
	+	-	_	_	1	1	-	-	
_	+2		_	1	-	1	-		
1	m l								
	+1		•		***	•	æ	quera,	
-					*****		_	976	

Reseeds

Types: Mogetive

Days

Sample: 7-A

Temperature: 20°C

£3

Trypticase Soy Broth:
Date Media was made:

24 Hour Incubation: Sample:

barron.	1	2	3	4	5	6	7
5m1							
+1	_	_	_	_	_	_	_
+2	_	_					
Imi							
+1		_	_		_	_	1
+2	_		Carps.	_		_	m#00s

Thioglycolate Broth

Date Media was made: -

24 Hour Incubation:

Sample:	1011.		2	3	4	5	6	7
<u>5</u> n	1							
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+	2	^	1	^				Annual Contract
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+		-	_	_	1	1	-	Windows.
+	2	_	_	~)	-	_	

Regeeds
Types: Negative

Sample: 10-4

Temperature: 25°C

I. Trypticase Soy Broth:
Date Media was made: —

II. Thioglycolate Broth Date Media was made: --

Sample:

24 Hour Incubation:

+2

+2

Raw Data Producer B

	CONTROL: 28 IDENTIFICAT		i	TE	MPE	RAT	URE	::37	٥c						
	CEII Count			4	X	105	J.								
			·						,						
١.	Trypticase Soy Broth: Date Media was made: 24 Hour incubation:									•••					
Α.	Days (1-14) Blank Control: #1	1-1-	2	3	4	5	6	7	8	9	10	-	12	13	14
В.	#2 Control Dilutions-Seeded: 10-2	+	+	+	ı	i		4		1	1	+	1	+	4
	10-43 10-8 4		++	+	+	+	+	+ +	+	+ + -	+ + -	+ +	+	+ + -	+ +
С.	Seeded Dilutions-Glycerine-Iml:	+	! ! † .	+	+	+	-	+	4	+	+	+	+	-	1
	10-\$3 10-74 10-\$5		+ + -	+	4	+ + -	4	+	+	+	+ +	4	+	++-	+
D.	Seeded Dilution-Glycerine-5 ml: 10-7 2 10-6 3 10-7 4 10-7 5		-	-	-			-		acari gari-	_				-
11.	Thioglycollate Broth: Date Media was made: 24 Hour incubation:	1	2	7	1	E		7	0	0	10	<u> </u>	12	13	14
Α.	Days (1-14) Blank Control: #1 #2	-	2	 - -	4	5	6	<i></i>	8	9	10	-	2	-	 - -
В.	Control Dilutions-seeded:														
	10-2 10-43 10-44 10-85	+	+ + +	+++	+++	* +	+ + +	+ +	+ + +	+	+	+	1+++	1+++	+++
С.	10-9 3	+	+ + +	+	+++++++++++++++++++++++++++++++++++++++	+ + +	4 4 4	A	+	+	+ + +	++	+++	+ +	4 + +
D.	10-8 Seeded Dilutions-Glycerine-5ml:	-		6 62	-	**************************************	49	war	æ				-		
	10-43 10-74 10-85		-		=		-	-	-				-	-	

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kgrivogs.

No second

last control

TEMPERATURE: 37° CONTROL: IDENTIFICATION 16 3 CEII COUNT Trypticase Soy Broth: Date Media was made:-24 Hour incubation: 11 112 113 114 Days (1-14) 10 Blank Control: #2 Control Dilutions-Seeded: В. 10-2 + t 10-4 10-6 10-8 Seeded Dilutions-Glycerine-Iml: Ç. 10-5 4 i+ ŧ 7 10-6 + + ÷ 10-7 1+ 7 + 10-8 4 1+ + Seeded Dilution-Glycerine-5 ml: D. 10-5 10-6 10-7 10-8 Thioglycollate Broth: 11. Date Media was made: 24 Hour incubation: 2 7 9 10 11 Days (1-14) .3 Blank Control: Α. #1 #2 Control Dilutions-seeded: В. 10-2 + + + 10-4 1 + 4 4 10-6 + ٦ t + 10-8 Seeded Dilutions-Glycerine-Im1: ŧ 10-5 2 + + + + 10-6 4 4 4 * 10-7

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10-8

10-10-

Seeded Dilutions-Glycerine-5ml:

SAMPLE: / S TEMPERATURE: 372
IDENTIFICATION:

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I. Trypticase Soy Broth Date Media was made: *** 24 Hour Incubation:

	SAME	PLE
where sup	ply	is
availab	e)	10m1
		#1
		#2
		5m1
		#1
		#2
		lml
		#1
		#2

•							Ī	DAYS	(1-1-	4)				
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II. Thioglycollate Broth Date Media was made: —— 24 Hour Incubation:

S	AMPLE
(where supp	ly is
available) i Om !
	#1
	#1
	5m I
	#1
	#2
	1ml
	#1
	#2

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SAMPLE:

TEMPERATURE: 376

IDENTIFICATION: 38

1. Trypticase Soy Broth Date Media was made: ______ 24 Hour Incubation:

SAMPLE			
(where supply is	1	2	_3
available) 10ml			
#1			
#2	<u> </u>		1
5m l			
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#2	_	-	L
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#1	-	_	١.
#2		_	İ
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DAYS (1-14)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

SAM	PLE
(where supply	is
available)	I Om I
	#1
	#1
	5m i
	#1
	#2
	1ml
	#1
	#2

							[DAYS	(1-1	4)			
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SAMPLE:

TEMPERATURE: 376

IDENTIFICATION: 38

1. Trypticase Soy Broth
Date Media was made:
24 Hour Incubation:

SAM	PLE
(where supply	is
available)	I Om I
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	#2
	5m l
	#1
	#2
	lml
	#1
	#2

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II. Thioglycollate Broth
Date Media was made: —
24 Hour Incubation:

SAMPLE
(where supply is available) | IOml #1 #1 | 5ml #2 | 1ml #1 | #2

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SAMPLE: TEMPERATURE: 37

IDENTIFICATION: H8

I. Trypticase Soy Broth Date Media was made: ____

24 Hour Incubation:

SAMPLE								[SYAC	(-	4)				
(where supply is	.1	2	.3	.4	5	<u>,</u> 6	.7	.8	9	10	11	, 12	. 13	14	ř
available) 10ml	ļ			ĺ	ĺ	(İ		į	i	ļ	•	1	
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Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

SAMF	PLE
(where supply	is
available)	I Om I
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	#1
	5m l
	<i>#</i> 1
	#2
	1m l
	#1
	#2

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SAMPLE:

TEMPERATURE:31°

IDENTIFICATION: 58

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I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE									DAYS	(1-1-	4)				
(where supply is	1	2	.3	4	5	6	7	.8	9	10	11 .	12	. 13	14	r
available) 10ml		İ	f		[ĺ		İ		j ']	i
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II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

S	AMP	LE
(where supp	ly	is
available	•)	1 0m 1
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TEMPERATURE: 370 SAMPLE: IDENTIFICATION: 68 Trypticase Soy Broth Date Media was made: --24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 12 13 114 available) | 10ml #1 #2 5m1 #1 #2 1ml #1 #2 Thioglycollate Broth

Date Media was made: —
24 Hour Incubation:

SAME	'LE
ply	is
le)	I Om I
	#1
	#1
	5m1
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SAMPLE: TEMPERATURE: 37°

IDENTIFICATION: 78

1. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

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SAM	PLE								Ī.	DAYS	(1-1	4)				
(where supply	is	1	2	.3	4	5	6	.7	.8	9	10	11	. 12	. 13	14	r
available)	I Om I				Ė	[Ì		İ		i	i	ļ			
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II. Thioglycollate Broth
Date Media was made: -24 Hour Incubation:

SAMF	PLE
(where supply	is
available)	10m l
	#1
	#1
	5m1
	#1
	#2
	1m l
	#1
	#2

			DAYS (1-14)											
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TEMPERATURE: 31° SAMPLE: IDENTIFICATION: 88 I. Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is , 12 10 - 11 .13 114 available) I Om I #1 #2 5m1 #1 #2 1ml #1 #2 Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 13 | 14 6 7 8 10 11 . 12 available) 10ml #1 #1 5m1 #1 #2 1ml #1

the second

#2

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toward and

Contracted to

TEMPERATURE: 37° SAMPLE: IDENTIFICATION: 98 I. Trypticase Soy Broth Date Media was made: --24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 12 10 - 11 available) 10ml #1 #2 5m1 #1 #2 Iml #1 #2 Thioglycollate Broth Date Media was made:-24 Hour Incubation: SAMPLE DAYS (1-14) 12 (where supply is 6 8 10 available) 1 Om 1 #1 #1 5m l

> #1 #2

1m1 #1 #2

53

SAMPLE:

TEMPERATURE: 310

IDENTIFICATION: 108

I. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

SAMPLE DAYS (1-14) (where supply is 12 10 11 .13 114 available) 10ml #1 #2 5m1 #1 #2 Iml + #1 #2

II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

SAMPLE
(where supply is available) 10m1
#1
#1
5m1
#2
1m1
#1

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Regeeds
Types: Negative
Sample: 1-B
Temperature: 37°C

I. Trypticase Soy Broth:

Date Media was made:— 24 Hour Incubation: Sample:

as made;- ubation:	•			Days			
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II. Thioglycolate Broth Date Media was made: — 24 Hour Incubation:

Days
Sample: 1 2 3 4 5 6 7

							
5m1							
+1	<u>-</u>	_	_	_		_	_
+2	-	_	i -	-	_	_	1
Iml							
+1	_	_	-	-	_	_	_
+2	_	_	_		-	-	-

Reseeds

Types: Negative

Sample: 5-B

Temperature: 37°C

Trypticase Soy Broth:
Date Media was made:

24 Hour Incubation:

Days Sample: 2 3 7 5m l +1 +2 lm! +1 +2

II., Thioglycolate Broth

Date Media was made:-24 Hour

Hour Incubatio	n:			Days			
Sample:	<u> </u>	2	3	4	5	6	77
5m1							
+1	_	_	_	_	_	_	~
+2	_	_	~	-	_	-	
<u> </u>							
+1	_	_	_	_	-	_	_
+2	_	_	-	_	ass		

Receeds

Types: Negative

Sample: 6-B

Temperature: 320

I. Trypticase Soy Broth: Date Media was made: 24 Hour Incubation:

Days

Sample:

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II. Thioglycolate Broth

Date Media was made: - 24 Hour Incubation:

Sample:		1	2	3	4	5	6	7
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Regeeds Types: Negative

Sample: 9-B

Temperature: 37°C

Trypticase Soy Broth:
Date Media was made:

24 Hour

Media was Hour Incub		Days										
Sample:		1	2	3	4	5	6	7				
	5m1											
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Thioglycolate Broth Date Media was made:

Hour Incub	oation:				,-			
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	lml							
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	CONTROL: 2	101	.	TE	MPE 3	RAT	URE	: 2	00						
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۱.	Trypticase Soy Broth: Date Media was made: 24 Hour incubation: Days (1-14)	·	; 2	3	. 4	. 5	. 6	7	i 8	; 9	, 10	, 11	112	ı13	,14
Α.	Blank Control: #1 #2	-	-	_	-	-	-	~	-	=	=	-		-	1 -
В.	Control Dilutions-Seeded:	-	-	+	4-	+ +	+	+	+ 4	++	+	+	+	+	+
	10-43 10-45 10-85	1. 1	, , ,	, , ,	-	-	-	-	, ,	_	_	-	-		-
С.	Seeded Dilutions-Glycerine-Iml: 10-7 3 10-7 4 10-8	1 1	1 1		-	1 1 1 1		†	7 4 + 1	* + +	+++	+ + + -	+++	+++	+++
D.	Seeded Dilution-Glycerine-5 ml: 10-7 z 10-6 3 10-7 4 10-8	1 1 1 1		, ,				45.01	, , ,	, , , ,			AND THE STREET	कार्याद्यक स्थितक स्थापक स्थापक	1 1 1
11.	Thioglycollate Broth: Date Media was made: 24 Hour incubation: Days (1-14)	1	2	3	Δ	5	6	7 .	8	9	10	11	12	13	14
Α.	Blank Control: #1 #2	-	-	_	-	-	-	-	_	_	_	_	-	-	-
В,	Control Dilutions-seeded: 10-2 10-43 10-4 10-65 10-8		-	- +	1 + 1 1	+ + +	+ + +	+ + + + + + + + + + + + + + + + + + + +	+++	+++ -	- +++ -) +++	+ + +	+++	+ + + + -
C.	10-# 3	-		-	1 1	-		+	7 4	7 T	T +	7 †	+	+	7 +
D.	10-74 10-85 Seeded Dilutions-Glycerine-5ml:		-	-	1 1	-	_	-	1 4	1	+			4	+
	10-5 2 10-6 3 10-7 4 10-8 5	1 1 1 2		,	1111	-				<u>-</u>	-	-	3E	randa Staringan	

	CONTROL: IC IDENTIFICAT CEII COUNT	101	-			RAT		:21							
۱.	Trypticase Soy Broth: Date Media was made: 24 Hour incubation:		. 0	7		. 6		7	: 0	-	10	1.1	.12	.12	
Α.	Days (1-14) Blank Control: #	-	-	-	4	-	-	-	8	9	10	anote .	112	13	14
В.	#2 Control Dilutions-Seeded: 10-2		_	-	1	4	1	4	4	+	ساد	<u> </u>	1	1	4
	10-43 10-44 10-85	-0.	-		-	-	-	-	+	ł	1	-		-	7 1 1
С.	Seeded Dilutions-Glycerine-Iml: 10-72 10-63 10-74	**			+	+	+ +						Carried State of the Carried S	-	+
D.	Seeded Dilution-Glycerine-5 ml: 10-\$2 10-\$3 10-74 10-85			6000 days		entr	Marie Company and	eor ·		Op.	to.		Total Control	engir engir	
11.	Thioglycollate Broth: Date Media was made: 24 Hour incubation: Days (1-14)	1	2	. 3	4	5	6	7	, 8	9	10	11	12	13	14
Α.	Blank Control: #1 #2	-	_	-	-		-	-	-		-	_		-	
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D.	Seeded Dilutions-Glycerine-5ml:	-			-	1 1	or.	- -		entr ^a pril mar-	-		-	-	

TEMPERATURE: 200 SAMPLE: 16 IDENTIFICATION: 1. Trypticase Soy Broth Date Media was made: --24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is available) 10ml 12 10 11 #1 #2 5m1 #1 #2 Iml #1 #2 11. Thioglycollate Broth Date Media was made: -24 Hour Incubation: DAYS (1-14) SAMPLE 12 (where supply is 10 11 , 13 , 14 available) t Om t #1 #1 5m l #1 #2 1m1 #1 #2

SAMPLE: 26 TEMPERATURE: 200

IDENTIFICAT	10N:	

I. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

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(where sup	ply	is
availabl	e)	I Om I
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		5m1
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II. Thioglycollate Broth
 Date Media was made: —
24 Hour Incubation:

SAMPLE
(where supply is available) | IOml #1 #1 5ml #2 1ml #1 #2

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TEMPERATURE: 200 SAMPLE: IDENTIFICATION: 38

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE									DAYS	(1-1	4)				
(where supply is	1	2	.3	4	5	.6	.7	.8	9	10	11 ,	.12	13	14	c
available) Oml	ļ	l	Ī	Î	ſ	1		ĺ		i					
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II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

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TEMPERATURE: 200

IDENTIFICATION: 48

1. Trypticase Soy Broth
Date Media was made: --24 Hour Incubation:

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II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

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(where sup	ply	is
availabl	e)	10ml
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		5m l
		#1
		#2
		1ml
		#1
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TEMPERATURE: 20%

IDENTIFICATION: 58

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I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE								[DAYS	(1-1-	4)				
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available) Oml				Ï	ſ	1		İ	•	i	1				
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II. Thioglycollate Broth

Date Media was made:

24 Hour Incubation:

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(where suppl	ly is
available	10m1
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TEMPERATURE: 200

IDENTIFICATION: 68

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAM	PLE									DAYS	(1-14	4)				
(where supply	is	1	2	.3	4	5	6	7	.8	9	10	11 ,	12	. 13	14	ŗ.
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II. Thioglycollate Broth
Date Media was made:—
24 Hour Incubation:

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available)	1 Om 1	1	į
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SAMPLE: TEMPERATURE: 206

IDENTIFICATION: 78

. I. Trypticase Soy Broth
Date Media was made:

24 Hour Incubation:

SAMPL	_E									DAYS	(1-14	4)				
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Thioglycollate Broth
Date Media was made: 11. 24 Hour Incubation:

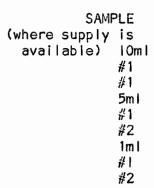
SAN	MPLE
(where supply	y is
available)	I Om I
	#1
	#1
	5m1
	#1
	#2
	1m l
	# I
	#2

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SAMPLE: 86 TEMPERATURE: 200
IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made:— 24 Hour Incubation:

SAM	PLE	-								DAYS	(1-1	4)				
(where supply	is	1	2	.3	4	5	6	7	.8	9	10	11	. 12	.13	14	ŗ
available)	I Om I		l		Î	ſ	Ì		ļ		i					
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<u> </u>	L	L	<u> </u>	 	Ļ	ļ		<u> </u>					

TEMPERATURE: 200 SAMPLE: IDENTIFICATION: 9B Trypticase Soy Broth Date Media was made: -24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 12 . 13 . 14 available) I Om I #1 #2 5m l #1 #2 lml #1 #2 Thioglycollate Broth 11. Date Media was made: -24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 12 13 ; 14 6 available) 10ml #1 #1 5m1

> #1 #2 1ml #1 #2

SAMPLE: 106 TEMPERATURE: 200 IDENTIFICATION: Trypticase Soy Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 12 available) 10m1 #1 #2 5m1 #1 #2 l m l #1 #2 Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 7 10 11 , 12 , 13 , 14 available) 10ml #1

> #1 5ml #1 #2 1ml #1

Reseeds
Types: Nesative

Sample: 1-B

Temperature: 20°C

I. Trypticase Soy Broth: Date Media was made: _

Sample:

24 Hour Incubation:

Days

II. Thioglycolate Broth Date Media was made: -

24 Hour Incubation:

Sample:	1	2	3	4	5	6	7
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+1)		_	_		_	
+2	*Albert Str						_
l m l							
+1	Service.		-D45"				_
+2	Michael	Ministra		Nation	****	_	_

Reseeds
Types: Negative
Sample: 3-B
Temperature: 20°C

I. Trypticase Soy Broth: Date Media was made: --

24 Hour Incubation:

Days

II. Thioglycolate Broth Date Media was made: 24 Hour Incubation:

+1

+2

Days

Types: Negative

Sample: 6-B

Temperature: 2000

I. Trypticase Soy Broth: Date Media was made: •

Section 2

24 Hour Incubation: Sample:

bation:	•			Days			
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+2	خلامت	n September	p etiti is:	PIECE	EEL.	positivie	200

II. Thioglycolate Broth
Date Media was made: --

24 Hour Incubation:

Sample:			2	3	4	5	6	7
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	+2	-	_	_	~	_		(
	Iml	1						
	+1	^	_	_	~	_	-	1
	+2	-	-	-	-	•	_	-

Re**s**eeds Types: Negative

Sample: 9-B

Temperature: 20°C

Trypticase Soy Broth: Date Media was made: 🕳

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24 Hour Incub

Media was Hour Incuba		are the			Days			
Sample:		1	2	3	4	5	6	7
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Thioglycolate Broth

Date Media was made:-24 Hour Incubation:

Sample:	Ja i i Oii .	ī	2	3	4	5	6	7
Sample:		,			4	ر		· · · · · · · · · · · · · · · · · · ·
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	+2				-	~	~	

Raw Data Producer C

CONTROL: \C	TEMPERATURE: 370
IDENTIFICATION	
CEIL COUNT 2.	6 × 105
	

1. Trypticase Soy Broth: Date Media was made 24 Hour incubation:

Days (1-14)

A. Blank Control:

#1 #2

B. Control Dilutions-Seeded:

10-² 10-⁴3 10-⁶4 10-⁸5

C. Seeded Dilutions-Glycerine-Iml:

10-9 2 10-9 3 10-7 4 10-9 5

D. Seeded Dilution-Glycerine-5 ml:

10-\$ 2 10-\$ 3 10-7 4 10-\$ 5

II. Thioglycollate Broth:

Date Media was made:—

24 Hour incubation: Days (1-14)

A. Blank Control:

#1 #2

B. Control Dilutions-seeded:

10-7 10-4 \$ 10-6/4 10-8/5

C. Seeded Dilutions-Glycerine-Iml:

10-9 Z 10-9 Z 10-7 4 10-8 S

D. Seeded Dilutions-Glycerine-5ml:

10-23

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24 Hour incubation: Days (1-14) A. Blank Control: #1 #2 B. Control Dilutions-Seeded: 10-2 10-43 10-65 10-65 C. Seeded Dilutions-Glycerine-Iml: 10-55 D. Seeded Dilution-Glycerine-5 ml: 10-65 10-65 10-65 10-74 10-75 10-75 10-75 10-75 10-75 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-75 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-75 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-75 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-85 D. Seeded Dilution-Glycerine-5 ml:	14 - + + + + + + + + + + + + + + + + + +
A. Blank Control: #1 B. Control Dilutions-Seeded: 10-2 10-43 10-65 10-65 C. Seeded Dilutions-Glycerine-Iml: 10-52 10-43 10-74 10-8 D. Seeded Dilution-Glycerine-5 ml: 10-73 10-73 10-73 10-75 10-8 Index Control Dilutions-Seeded:	++++ +
B. Control Dilutions-Seeded: 10-2 10-43 10-65 10-8 C. Seeded Dilutions-Glycerine-Iml: 10-52 10-63 10-74 10-75 10-8 D. Seeded Dilution-Glycerine-5 ml: 10-73 10-74 10-75 10-75 10-75 10-8 In-75 In-	- ++++ +++- + -+-
10-2 10-43 10-65 10-8 C. Seeded Dilutions-Glycerine-Iml: 10-52 10-63 10-74 10-8 D. Seeded Dilution-Glycerine-5 ml: 10-73 10-73 10-73 10-73 10-75 10-8 II. Thioglycollate Broth:	++++ + +++ + -+-
10-45 10-65 10-8 C. Seeded Dilutions-Glycerine-Iml: 10-52 10-63 10-74 10-75 10-8 D. Seeded Dilution-Glycerine-5 ml: 10-63	++++ + +++
10-45 10-65 10-8 C. Seeded Dilutions-Glycerine-Iml: 10-52 10-63 10-74 10-75 10-8 D. Seeded Dilution-Glycerine-5 ml: 10-63	ナナナナ ナトナー ナトナー
C. Seeded Dilutions-Glycerine-Iml: 10-\$2 10-45 10-45 10-65 D. Seeded Dilution-Glycerine-5 ml: 10-\$2 10-\$3 10-\$4 10-\$5 10-\$3 10-\$4 10-\$5 10-\$5 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 10-\$6 11. Thioglycollate Broth:	T++ + 1+1 + 1+1
C. Seeded Dilutions-Glycerine-Iml: 10-\$2 10-\$3 10-\$4 10-\$5 D. Seeded Dilution-Glycerine-5 ml: 10-\$2 10-\$3 10-\$4 10-\$5 10-\$3 10-\$4 10-\$5 10-\$5 10-\$5 10-\$6 11. Thioglycollate Broth:	ナナナナーナーナーナー
C. Seeded Dilutions-Glycerine-Iml: 10-\$2 10-\$3 10-74 10-85 D. Seeded Dilution-Glycerine-5 ml: 10-\$3 10-\$4 10-\$5 10-\$5 10-\$5 10-\$6 11. Thioglycollate Broth:	+++
10-\$\frac{5}{10-\$\frac{4}{5}}\$ 10-\$\frac{4}{5}\$ 10-\$\frac{4}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 10-\$\frac{7}{5}\$ 11. Thioglycollate Broth:	ナーナーナーナーナー
D. Seeded Dilution-Glycerine-5 ml: $ \begin{vmatrix} 10-43 \\ 10-85 \end{vmatrix} $ $ \begin{vmatrix} 10-43 \\ 10-63 \\ 10-73 \\ 10-75 \\ 10-8 \end{vmatrix} $ 11. Thioglycollate Broth:	ナナナ
D. Seeded Dilution-Glycerine-5 ml: $ \begin{vmatrix} 10-74 \\ 10-85 \end{vmatrix} $ $ \begin{vmatrix} 10-72 \\ 10-73 \\ 10-74 \\ 10-75 \\ 10-8 \end{vmatrix} $ 11. Thioglycollate Broth:	ナーナーナ
D. Seeded Dilution-Glycerine-5 ml: 10-72 10-73 10-74 10-75 10-8 11. Thioglycollate Broth:	+ + +
D. Seeded Dilution-Glycerine-5 ml: 10-72 10-73 10-74 10-75 10-8 11. Thioglycollate Broth:	ナーナ
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10-7.5 10-8 11. Thioglycollate Broth:	4
10-8 11. Thioglycollate Broth:	_
II. Thioglycollate Broth:	
24 Hour incubation:	
	14
A. Blank Control:	-
#1 #2	~
B. Control Dilutions-seeded:	
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10-14	- F
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C. Seeded Dilutions-Glycerine-Iml:	andre, e
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10-85	
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10-14)
10-85	-494

CONTROL: 10 C TEMPERATURE: 37° IDENTIFICATION____

CEH Count 2.6 x 105

TEMPERATURE: 370 SAMPLE: 1C IDENTIFICATION: Trypticase Soy Broth Date Media was made: --24 Hour Incubation: SAMPLE DAYS (1-14) , 12 , 13 , 14 (where supply is 10 11 available) 10ml #1 #2 5m1 #1 #2 lml #1 #2 II. Thioglycollate Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 6 7 available) 10ml #1 #1 5m1 #1 #2 1ml #1 #2

8

SAMPLE: 2 (TEMPERATURE: \$76 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is , 12 10 11 . 13 , 14 available) 10ml #1 #2 5ml #1 #2 lm1 #1 #2 Thioglycollate Broth Date Media was made:-24 Hour Incubation: SAMPLE DAYS (1-14) , 12 (where supply is 6 8 10 11 available) 10ml #1 #1 5m1 #1 #2 1ml #1 #2

SAMPLE: 3 C TEMPERATURE: 37 °

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

SAMPLE									2YAC	(1-1	4)			
(where supply is	1	2	.3	4	5	,6	,7	.8	9	10	11	, 12	. 13	14 -
available) 10ml		i	ĺ	İ		(j		İ		į		
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II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

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TEMPERATURE: 37° SAMPLE: 40 IDENTIFICATION: 1. Trypticase Soy Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is , 12 10 11 available) 10ml #1 #2 5ml #1 #2 lmi 7 #1 #2 11. Thioglycollate Broth Date Media was made: --24 Hour Incubation: SAMPLE DAYS (1-14) , 12 (where supply is 8 10 - 11 available) 1 0m l #1 #1 5m1 #1 #2 1ml #1 #2

TEMPERATURE: 370 SAMPLE: 50 IDENTIFICATION: 1. Trypticase Soy Broth Date Media was made:-24 Hour incubation: SAMPLE DAYS (1-14) 12 (where supply is 10 11 available) 10ml #1 #2 5m1 #1 #2 lm l #1 #2 II. Thioglycollate Broth Date Media was made: -24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 6 7 8 10 - 11 , 12 , 13 , 14 available) I Om I #1 #1 5ml #1 #2 1ml #1

#2

TEMPERATURE: 370 SAMPLE: 6C IDENTIFICATION: Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 12 available) | 10ml #1 #2 5ml #1 #2 lm1 #1 #2 11. Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is , 12 10 6 8 1.1 available) 10m1 #1 #1 5ml #1 #2 1m l #1 #2

SAMPLE: 7 TEMPERATURE: 37 ° IDENTIFICATION:

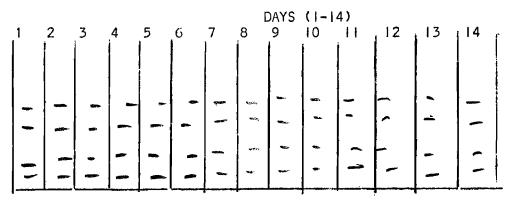
1. Trypticase Soy Broth

I. Trypticase Soy Broth
 Date Media was made:
 24 Hour Incubation:

SAMPLE DAYS (1-14) (where supply is 10 11 , 12 .13 !14 available) 10ml #1 #2 5m1 #1 #2 Iml #1 #2

II. Thioglycollate Broth Date Media was made: 24 Hour Incubation:

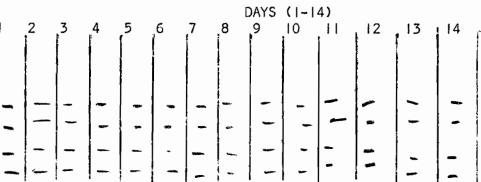
SAMPLE
(where supply is available) | IOml #1 #1 | 5ml | #2 | 1ml | #1 | #2



SAMPLE: 8 C TEMPERATURE: 37°
IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE
(where supply is available) IOmI
#I
#2
5mI
#1
#2
ImI
#1
#2



II. Thioglycollate Broth Date Media was made: *** 24 Hour Incubation:

SAMPLE
(where supply is available) | IOml #1 #1 5ml #2 1ml #2

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		DAYS (1-14)											
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SAMPLE: Q C TEMPERATURE: 31° IDENTIFICATION: Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 12 . 13 . 14 10 11 available) 10ml #1 #2 5m1 # 1 #2 Iml #1 + #2 11. Thioglycollate Broth Date Media was made: ----24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is , 12 , 13 , 14 7 8 10 - 11 6 available) 10ml #1 #1

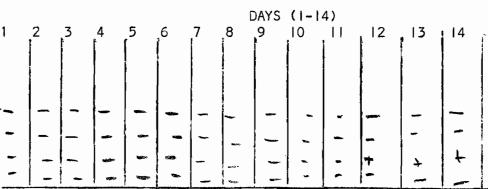
1

5m1 #1 1m1 #1 #2 SAMPLE: 100 TEMPERATURE: 370

IDENTIFICATION:

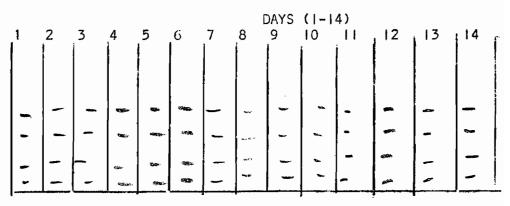
1. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE
(where supply is available) | 10ml #1 #2 | 5ml #1 #2 | 1ml #1 #2



II. Thioglycollate Broth Date Media was made: we 24 Hour Incubation:

SAMPLE
(where supply is available) | IOml #1 #1 5ml #2 1ml #2



Reseeds Types: Negature Sample: 1-C

Temperature: 37 °C

Trypticase Soy Broth: Date Media was made: -

24 Hour Incub

Media was Hour Incut					Days			
Sample:		1	2	3	4	5	6	7
	5m1							
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	+2		_		_		· second construction	A
	lml							
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	+2	_		_	_	-		Marriaga.

Thioglycolate Broth Date Media was made:-24 Hour Incubation:

Sample:		2	3	4	5	б	7
5m l							
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+2	_	_	~		_	_	-
lml							
+1	-	_		_	_	-	-
+2.	700	_	-	_			-

Types: Negature

Sample: 2-C

Temperature: 37°C

Days

I. Trypticase Soy Broth:
Date Media was made:

24 Hour Incubation: Sample:

	1	2	3	4	5	6	7
5m1	-						
+1	_	_	-	4000	**		egar.
+2		-		_		-	ALCONO.
lml							
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+2	_		WINEWY.		- Salakaritir	A COUNTY	e de la constante de la consta

II. Thioglycolate Broth Date Media was made: —— 24 Hour Incubation:

Sample:		2	3	4	5	6	7
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Re**Seeds** Types: Negative
Sample: 5-C

Temperature: 37°C

Trypticase Soy Broth: Date Media was made: —

Days

24 Hour Incubation: Sample:

	1	22	3	4	5	6	7
5m1							
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lm1							
+1	_	_		_		_	parties.
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Thioglycolate Broth

Date Media was made: -24 Hour Incubation:

Sample:	11011.		2	3	4	5	6	7
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Re**c**eeds Types: Sample: 7-C

Temperature: 326C

Trypticase Soy Broth: Date Media was made:

24 Hour Incut

Media was Hour Incub					Days			
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Thioglycolate Broth

Date Media was made: 🕶 24 Hour Incubation:

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	CONTROL: 1	ر ۱۵۱	l	TE	MPE	RAT	URE	:20	٥٥ر						
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۱.	Trunticasa Sou Broth:		,							_					
	Trypticase Soy Broth: Date Media was made: 24 Hour incubation: Days (1-14)	:	ì 2	.3	. 4	ı 5	16	7	. 8	; 9 ;	10	, 11	112	:13	; 14
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11.	Thioglycollate Broth: Date Media was made: 24 Hour incubation:	<u>i.</u>	}		,	1		·	<u> </u>	i	Ĭ	!	<u> </u>		<u> </u>
Α.	Days (1-14) Blank Control: #1	1	2	.3	4	5	6	7	8	9	10		12	13	14
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c.	10-8 Seeded Dilutions-Glycerine-Iml:	-	_	-	-	-	-	+		1	-		-	-	-
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1.	Trypticase Soy Broth: Date Media was made: 24 Hour incubation: Days (1-14)		, 2		. 4	. 5	1 6	. 7	i 8	- ; 9 ;	10	, 11	112	: 13	:14
Α.	Blank Control: #1 #2	-	-	,	-	-	1 1	-	,		2000			-	===
В.	Control Dilutions-Seeded: 10^{-2} 10^{-4} 10^{-6} 10^{-8}				+ +	+	+ + 1 1	ate made.	+ + 1	2)	***	+	+	1 + -	キャー
C.	Seeded Dilutions-Glycerine-Iml: 10^{-5} 10^{-6} 10^{-7} 10^{-8}	- 1 1		- ' ' '		+	+	+ + 1	T 4 -	and Second	4		lear J.	+ 1 1	+-1 -
D.	Seeded Dilution-Glycerine-5 ml: 10-5 10-6 10-7 10-8	-			-	-		1 1 1		Sar Manas Manas Manas Manas	Se. Ser-	TATE.			
11.	Thioglycollate Broth: Date Media was made: 24 Hour incubation: Days (1-14)	1	2	7	1	5	6	7	. 8	9	10	11	12	13	14
Α.	Blank Control: #1 #2	-	-	, , - -	_	-	-	1	-	Mar.	24		-	-	_
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с.	Seeded Dilutions-Glycerine-Iml: 10-5 10-6 10-7 10-8	7 7 1			Side:		++	+ + 1)	T T 1 1	and the	and and arm.	+ 4 (4 + - ~	+7 1 1	- ++
D.	Seeded Dilutions-Glycerine-5ml: 10-5 10-7 10-8	11-	-		AND THE SERVICE	estate estate para	ACTIVE ACTIVE	-	, , ,	alian anan egan	Page Page Page Page Page Page Page Page	-			1111

CONTROL: 10C TEMPERATURE: 20°C IDENTIFICATION

CEN Count 2.6x/05

TEMPERATURE: 200

IDENTIFICATION: /c

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE
(where supply is available) | 10ml #1 #2 | 5ml #2 | 1ml

								DAYS	(1-1-	4)			
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II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

#1 #2

SAMPLE
(where supply is available) | IOml #1 #1 | 5ml #2 | 1ml #1 | #2

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TEMPERATURE: 200 SAMPLE: 3C IDENTIFICATION:_ Trypticase Soy Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 12 10 .13 !14 11 available) 10ml #1 #2 5m1 #1 #2 lm! #1 #2 (23.8° 11. Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 6 7 10 11 12 , 13 , 14 available) 10m1 #1 #1 5m1 #1 #2 1m I #1

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SAMPLE: 3 C TEMPERATURE: 200
IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: **** 24 Hour Incubation:

SAM	PLE									DAYS	(1-1-	4)				
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II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

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(where suppl	y is
available)	1 0m l
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SAMPLE: 4.C TEMPERATURE: 20°

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

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available)	l Om I
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II. Thioglycollate Broth
Date Media was made: -24 Hour Incubation:

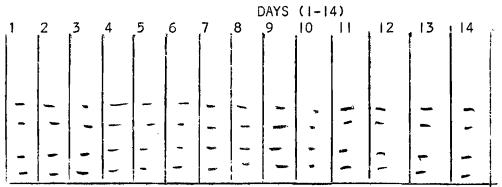
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(where supply	is
available)	I Om I
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SAMPLE: 5 C TEMPERATURE: 20°
IDENTIFICATION:

SAMPLE
(where supply is available) | IOml #1 #2 | 5ml #1 #2 | 1ml #1 #2



II. Thioglycollate Broth Date Media was made: --24 Hour Incubation:

SAMPLE
(where supply is available) | IOml #1 #1 5ml #2 1ml #2

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TEMPERATURE: 70 6 SAMPLE: 6 C IDENTIFICATION: Trypticase Soy Broth Date Media was made: --24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 , 12 .13 114 available) t Om I #1 #2 5m1 #1 #2 lm1 #1 #2 Thioglycollate Broth 11. Date Media was made: ---24 Hour Incubation: DAYS (1-14) SAMPLE 10 11 , 12 13 114 (where supply is 6 8 available) 1 Om 1 #1 #1 5m1 #1 #2 1m1 #1 #2

SAMPLE: 70 TEMPERATURE: 200 IDENTIFICATION: Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 available) 10ml #1 #2 5m1 #1 #2 1ml #1 #2 11. Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 , 12 , 13 , 14 7 8 11 available) I 0m I #1 #1 5m1 #1 #2 1ml

> #1 #2

SAMPLE: 8 C TEMPERATURE: 200 IDENTIFICATION:_ I. Trypticase Soy Broth Date Media was made :---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 . 12 .13 !14 - 11 available) I Om I #1 #2 5m1 #1 #2 Imi #1 #2 Thioglycollate Broth Date Media was made: -24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 7 , 12 13 14 6 8 10 \mathbf{H} available) 1 0m 1 #1 #1 5m1 #1 #2 1m1

> #1 #2

SAMPLE: 9 C TEMPERATURE: 20° IDENTIFICATION: Trypticase Soy Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 12 10 11 .13 !14 available) I Om I #1 #2 5m1 *‡* [#2 1m1 #1 #2 11. Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is . 12 , 13 6 7 8 10 11 available) I Om I #1 #1 5m l

> #1 #2 1ml #1 #2

TEMPERATURE: 200 SAMPLE: 10 C IDENTIFICATION: Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 12 - 11 available) 10m1 #1 #2 5m1 #1 #2 imi #1 #2 11. Thioglycollate Broth Date Media was made: -24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 6 7 8 10 11 , 12 13 14 available) I Om I #1 #1 5m1 *#* 1 #2 1ml #1

#2

Types: Sample: Temperature: 20°C Trypticase Soy Broth: Date Media was made: -Days 24 Hour Incubation: 2 3 Sample: 5m l +1 +2 Imi +1 +2 11. Thioglycolate Broth Date Media was made: -Days 24 Hour Incubation: Sample: 2 3 5 б 5m1 +| +2

1ml

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+2

Re**5**eeds

ReSeeds

Types: Negative

Sample: 2-C

Temperature: 20°C

I. Trypticase Soy Broth: Date Media was made: ****

Sample:

Date Media was made: • 24 Hour Incubation:

2 3 4 5 6 7

Days

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II. Thioglycolate Broth

Date Media was made: ----

24 Hour Incubation:

Sample:	<u>. </u>	2	3	4	5	6	7
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Reseeds

Types: Nogatul

Sample: <u>5-</u> S

Temperature: 206C

Days

Trypticase Soy Broth: Date Media was made: -

24 Hour Incubation:

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Thioglycolate Broth Date Media was made:-11.

24 Hour Incubation:

Sample:			2	3	4	5	6	7
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Reseeds
Types: Wexative
Sample: 7-C

Temperature: 20°C

Days

I. Trypticase Soy Broth: Date Media was made:

24 Hour Incubation: Sample:

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II. Thioglycolate Broth
Date Media was made:----

24 Hour Incubation:

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Raw Data Producer D

i.	Trypticase Soy Broth:														
	Date Media was made: -														
	24 Hour incubation:														
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11•	Date Media was made:				,										
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CONTROL: 10 TEMPERATURE: 210 TEMPERATURE

i.

	CONTROL: 45			TEN	1PE	RAT	URE	: 3	70						
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•	Trypticase Soy Broth: Date Media was made: 24 Hour incubation:									_			. 10	. •	
۹.	Days (1-14) Blank Control:	; i	2	3	4	5	6	/	8	9	10	11	12	13	14
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з.	#2 Control Dilutions-Seeded:												1		
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D.	10-8 Seeded Dilution-Glycerine-5 ml:														
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١.	Thioglycollate Broth:		!	1		1		: ;	(<u> </u>	!		<u> </u>
•	Date Media was made: —— 24 Hour incubation:														
Α.	Days (1-14) Blank Control:	1	2	.3	4	5	б	7	8	9 İ	10 1		12 1	13	14
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В.	#2 Control Dilutions-seeded:		,							-	*			}	
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С.	Seeded Dilutions-Glycerine-Iml:	1	_	ļ i									-		5
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	10-63 10-4	-													>
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TEMPERATURE: 376 SAMPLE: ID IDENTIFICATION: 1. Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: DAYS (1-14) SAMPLE , 12 (where supply is 10 - 11 available) 10ml #1 #2 5m1 #1 #2 lm1 #1 #2 Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAY\$ (1-14) 12 (where supply is 6 7 8 10 11 13 14 available) I Om I #1 #1 5m i #1 #2 1ml #1 #2

TEMPERATURE: 370 SAMPLE: 20 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 12 . 13 114 available) 10ml #1 #2 5ml #1 #2 Iml #1 #2 11. Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is , 12 , 13 , 14 6 7 8 9 10 11 available) 10ml #1 #1 5m1 #1 #2

> 1m1 #1 #2

SAMPLE: 30 TEMPERATURE: 310

IDENTIFICATION	:

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

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(where sup	ply	is
availab	le)	10m1
		#1
		#2
		5m1
		# I
		#2
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		#1
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		—

			DAYS (1-14)														
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II. Thioglycollate Broth
Date Media was made: -24 Hour Incubation:

SA	MPLE
(where suppl	y is
available)	1 Om 1
	#1
	#1
	5m l
	#1
	#2
	1m l
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	#2

							[DAYS	(1-1	4)			
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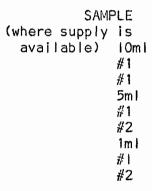
SAMPLE: 40 TEMPERATURE: 370

IDENTIFICATION:	·
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I. Trypticase Soy Broth Date Media was made: ______ 24 Hour Incubation:

SAMPLE									DAYS	(1-1	4)				
(where supply is	1	2	3	4	5	.6	.7	.8	9	10	H,	. 12	. 13	14	ċ
available) Oml		i	ľ	ĺ	ſ	(Í					[1	
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II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:



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SAMPLE: 50 TEMPERATURE: 370 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: -24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 12 . 13 : 14 available) 10ml #1 #2 5m1 #1 #2 lm1 #1 #2 11. Thioglycoliate Broth Date Media was made: -24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is , 12 , 13 , 14 10 11 б available) 10ml #1 #1 5m l #1 #2 1mi

> #1 #2

SAMPLE: GD TEMPERATURE: 316

IDENT	IFICAL	IOM:		

SAMI	OI F								ſ	DAYS	(1-1	4)				
(where supply available)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
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	m # #2	=	_	_	-	1	-		water.	MEG-	TERMINA TERMINA	SEE SEE	-	`.	=	-

II. Thioglycollate Broth
Date Media was made: 24 Hour Incubation:

SAMPLE
(where supply is available) 10ml
#1
#1
5ml
#1
#2
1ml
#1
#2

								£	AYS	(1-1	4)			
	1	2	3	4	5	6	7	8	9	10	Ш	, 12	13	14
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SAMPLE: 70 TEMPERATURE: 37°
IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

SAMF	PLE								E	DAYS	(1-1-	4)				
(where supply available)	is Om # #2 5m	1	2	3	4	5	6	7	8	9	10	11	12	13	4	
	#1 #2 Imi	****	-	,- -	11	1 1	<u>-</u>		-	160°	क्षेत्रहा . अस्तरा	-104:32 114:32	-	-	1 -	
	#1 #2		_	ン	-	-	-			our.	755ET*	especially.	_	, 1	-	

II. Thioglycollate Broth
Date Media was made: --24 Hour Incubation:

SAMF	LE								ĺ	DAY\$	(1-1	4)				
(where supply	is	1	2	3	4	5	6	7	8	9	10	-11 ,	, 12	13	14 ,	
available)	I Om I			i	Ì	1	1	1	ĺ	l	j i	i 1				
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	#2	49400	_ [-	-	-		क्षरा	afata-	*CECOD)	-			
	71 ←				<u> </u>				<i></i>	****	10ESD-	<i>&</i> `			1	_

Section 2

here were the second

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SAMPLE: 8D TEMPERATURE: 370 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: DAYS (1-14) 12 13 14 10 11

Thioglycollate Broth Date Media was made: 🕶 24 Hour Incubation:

SAMPLE

#1 #2 5m l #1 #2 1ml #1 #2

(where supply is

available) 10ml

SAN	/PLE
(where supply	/ is
available)	1 Om
	#1
	#1
	5m l
	<i>#</i> 1
	#2
	1m l
	#1
	#2

1	2	3	4	5	6	7	8	AYS 9	(1-14 10	4) 	12	13	14 f
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SAMPLE: 90 TEMPERATURE:31º IDENTIFICATION:_ Trypticase Soy Broth Date Media was made: ----24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 12 available) 10ml #1 #2 5m1 #2 lml #1 #2 Thioglycollate Broth Date Media was made: 🥌 24 Hour Incubation: SAMPLE DAYS (1-14) 10 , 12 (where supply is 6 - 11 available) I Om I #1 #1 5ml #1 #2 1m1 #1

#2

SAMPLE: 105 TEMPERATURE: 37 0 IDENTIFICATION:____ Trypticase Soy Broth * Date Media was made: ____ 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 12 available) 10m1 #1 #2 5m1 #1 #2 Imi #1 #2 Thioglycollate Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) , 12 7 10 11 13 14 8 (where supply is available) 1 Om 1 #1 #1 5m1 #1 #2 1ml #1

#2

Types: Negative

Sample: 1-D

Temperature: 37°C

I. Trypticase Soy Broth: Date Media was made:

11. Thioglycolate Broth Date Media was made: 24 Hour Incubation:

+2

Sample:	iiion:	ı	2	3	4	5	6	7
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Re**c**eeds Types: Negative
Sample: 3-D

Temperature: 376C

Trypticase Soy Broth: Date Media was made: — 24 Hour Incubation:

media was Hour Incub		-			Days			
Sample:		1	2	3	4	5	6	7
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	+2	_		, mar.	-	^		~===
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	+1	-	-euga	es.	_	•	~	-
	+2		de la companya de la	pa.		~		,cepitifystro-

Thioglycolate Broth Date Media was made:

24 Hour Incu Sample:

ubation:	•			Days			
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5m1							
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+2		1	1	}	_	•	
Iml							
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+2		950.	-	•		_	

Reseeds
Types: Wesatul
Sample: 5-0

Temperature: 37°C

I. Trypticase Soy Broth: Date Media was made: —

II. Thioglycolate Broth

Date Media was made: 24 Hour Incubation:

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Hour Incubation	on:			vays			
Sample:		2	3	4	5	6	7
5m1							
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+2		****	-	-	_	,-480s,	1
Iml							
+1			•	_	_	400	
+2		_	_	_	_	_	_

Reseeds

Types:

Sample: 8-D

Temperature: 37° C

Trypticase Soy Broth: Date Media was made: **** 24 Hour Incubation:

Media was Hour Incub					Days			
Sample:		1	2	3	4	5	6	7
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Thioglycolate Broth Date Media was made: 24 Hour Incubation:

Sample:			2	3	4	5	6	7
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	lml							
	+1		•	-	-	-	~	_
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	IDENTIFICAT	D NOI	l			RAT	URE	: 3	9						
	CEN COUNT	<u>ن</u>	9.2	ž.	103										
			- ,												
i.	Trypticase Soy Broth: Date Media was made: 24 Hour incubation: Days (1-14)	1	, 2	3	. 4	, 5	. 6	7	8	- ; 9	, 10	, 11	12	,13	_i 14
Α.	Blank Control: #1 #2			-	-	.,	V 8		6.	•≈ = 8		e:			-
В.	Control Dilutions-Seeded: 10-2 10-43	- 1			+	1	7	2.	7	+ +	An To	1		4	1
	10-6 5 10-8 5	-		-		•00.9 •00	-		2	4			7		-T -3 . 's
C.	Seeded Dilutions-Glycerine-Imi:	-			-7	2		4-	1	-1 -1		2	, -1		- 1 - 1
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	10-7 5	•		-	#43K	*	-			**	~	-2		drit.	e
11.	Thioglycollate Broth: Date Media was made: — 24 Hour incubation:	•	2	.3	1	5	6	7	. 8	9	10		12	13	14
Α.	Days (1-14) Blank Control: #1 #2		-	ر, - -	4	mar.			B7:		707	e e e e e e e e e e e e e e e e e e e	E	ros	
В.	Control Dilutions-seeded:	-		15	<u></u>	À.	4	-4	<u>.</u>	.d_		+		4	مرداد
	10-4-2	ł	en en	- 40 ·					4	- 1. - 1.	7		100 miles		n
С.	Seeded Dilutions-Glycerine-Iml:			7		•	-		-	•	-			ŧ.	
	10-6 5 10-7 5 10-8		·c				4		Provide the second	4 1	7	4	4		
D.	Seeded Dilutions-Glycerine-5ml:	, ,	روان همان	-	-	-			e.	et al.	en en en en en en en en en en en en en e	627		etti Parage	e

processing the state of the sta		CONTROL:	LON					URE	: 9 	£3						
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Reserve Area	1.	Trypticase Soy Broth: Date Media was made: 24 Hour incubation: Days (1-14)	1	. 2	3		. 5	1 6	i 7	, 8	- i 9	, 10	, 11	112	,13	:14
	Α.	Blank Control: #1	Ļ	-	·	" 		-					-a.c	-	-	
- Constant	В.	#2 Control Dilutions-Seeded:		١		46.5	*~		-		e a			į * .	-	-
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TEMPERATURE: 200 SAMPLE: 10 IDENTIFICATION: Trypticase Soy Broth Date Media was made: ~~ 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 12 . 13 114 available) 10ml #1 #2 5ml #1 #2 1m1 #1 #2 Thioglycollate Broth 11. Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is , 12 6 10 - 11 , 13 114 available) | 10ml #1 #1 5m l #1 #2 1m l

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#1 #2

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SAMPLE: 20 TEMPERATURE: 200 IDENTIFICATION: Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 13 114 available) 10m1 #1 #2 5m1 #1 #2 lml #1 #2 Thioglycollate Broth Date Media was made: --24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 8 - 11 , 12 13 , 14 6 10 available) I Om I #1 #1 5m1 #1 #2

> 1ml #1 #2

SAMPLE: 30 TEMPERATURE: 200 IDENTIFICATION: Trypticase Soy Broth Date Media was made: ----24 Hour Incubation: DAYS (1-14) SAMPLE , 12 , 13 , 14 (where supply is 10 11 available) 10ml #1 #2 5m1 #1 #2 Iml #1 #2 Thioglycollate Broth 11. Date Media was made: --24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 11 , 12 , 13 , 14 6 7 8 10 available) 10ml #1 #1 5m l #1 #2 1ml

3

#1 #2 SAMPLE: 40 TEMPERATURE: 200

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made:

24 Hour Incubation:

SAMI	PLE									DAYS	(1-1	4)				
(where supply	is	1	2	.3	4	5	ຸ6	,7	.8	9	10	.11 ,	12	. 13	14	r
available)	l Om l			ľ	Î	ĺ	[•	[
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	#2			ł	1			ŀ	i .							ĺ
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	#2	_		_	-	_	-				Sec.	ten.	_	~	•	İ
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	#2	-	-	÷	-	_	-	_	-		40	water	-	~	-	

II. Thioglycollate Broth Date Media was made: 24 Hour Incubation:

SA	AMPLE
(where supp	ly is
available) 10ml
	#1
	#1
	5m l
	#1
	#2
	1m l
	#1
	#2

									(1-1				
,1	,2	3	4	5	6	7	8	9	10	. 11	12	13	1 ¹⁴ f
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SAMPLE: 50 TEMPERATURE: 70°
IDENTIFICATION:

13 14

1. Trypticase Soy Broth Date Media was made: *** 24 Hour Incubation:

SAMPLE									DAYS	(1-14	4)				
(where supply is	1	2	.3	4	5	6	7	.8	9	10	11 .	. 12	.13	14	~
available) Oml	}		ĺ.	ľ	[ĺ	1	į	[i i					
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#2	-	_	-	_ '	-	_	_	-	100 /-		ت ا	-	_	-	
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II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

SAMPLE (where supply is		1	2	3	,4	.5	6	7	, 8	DAYS 9	(1-1- 10	4)
available) On #1	ı l					1	ł		1			
#1						Ì]		
5m1					_	-	-			- T	- W.	
#1 #2		- Martin	_	-			_		-			i
1m				-	_	-		_	-		****	مكافظهم
#1 #2			_	_	_	-			-	200°	- Sep	40-
77 2					_	li	L			L		

SAMPLE: 60 TEMPERATURE: 200 IDENTIFICATION: Trypticase Soy Broth Date Media was made:---24 Hour Incubation: DAYS (1-14) SAMPLE 12 13 14 (where supply is 10 11 available) 10ml #1 #2 5m1 #1 #2 Iml #1 #2 11. Thioglycollate Broth Date Media was made: **** 24 Hour Incubation: DAYS (1-14) SAMPLE 12 , 13 10 - 11 (where supply is available) 1 Om 1 #1 #1 5m l #1 #2 1ml

> #1 #2

TEMPERATURE: 200 SAMPLE: D IDENTIFICATION: 1. Trypticase Soy Broth Date Media was made:---24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is - 11 12 . 13 14 10 available) | 10ml #1 #2 5m1 #1 #2 lm! #1 #2 11. Thioglycollate Broth Date Media was made:---24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 - 11 12 13 14 8 available) 1 Om 1 #1 #1 5m1 #1 #2 1m t #1

#2

SAMPLE: 80 TEMPERATURE: 200

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

SAMPLE		
(where supply is	1	2
available) Oml		
#1		
#2		1
5m l		
#1	-	-
#2	عوب	_
lml		
#1	6400	

#2

								AYS	(1-14	4)				
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44.7		1	4	<u>!</u>			ł	!	!	L '				١.

II. Thioglycollate Broth Date Media was made: 24 Hour Incubation:

S/	AMPLE
(where supp	ly is
available) 10ml
	#1
	#1
	5m l
	#1
	#2
	1 m i
	#1
	#2

1	2	3	4	5	6	7	8	9	10		12	13	
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SAMPLE: 90 TEMPERATURE: 700 IDENTIFICATION: Trypticase Soy Broth Date Media was made: 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 12 . 13 ! 14 available) 10ml #1 #2 5m1 #1 #2 Iml #1 #2 Thioglycollate Broth Date Media was made: -24 Hour Incubation: SAMPLE DAYS (1-14) 12 (where supply is 6 8 10 11 available) 10m1 #1 #1 5m1 #1 #2 1ml

 $\overline{\mathcal{E}}_{i}$

#1 #2 SAMPLE: (OD TEMPERATURE: 20°C IDENTIFICATION:

SAM	PLE
(where supply	is
available)	I Om I
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	#2
	5m I
	# I
	#2
	l m l
	#1
	#2

								DAYS	(1-1	4)				
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II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

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(where sup	ply	is
availab	e)	10m l
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		#1
		5m l
		#1
		#2
		1m i
		#1
		#2

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Reseeds
Types: Negatwl
Sample: /- D
Temperature: 20° C

 Trypticase Soy Broth: Date Media was made:

24 Hour Incubation: Sample:

Days

1 2 3 4 5 6 7

5ml

+1

+2

1ml

+1

+2

II. Thioglycolate Broth Date Media was made: 24 Hour Incubation:

+2		-	-	-	_	•	*-
+1	_	-	# 5	-		((Feed)
lml							
+2	-	_	pos	###u	egge-	especies.	economic.
+		asc.	and the	garth,	9756-9	energy.	8010
<u>5m l</u>							
Sample:	· 	22	3	4	5	6	7

Reseeds Types: Wagatul

Sample: <u>3-0</u>

Temperature: 20°C

Trypticase Soy Broth: Date Media was made: 24 Hour Incubation:

Media was Hour Incul		000000			Days			
Sample:		1_	2	3	4	5	6	7
	5m1					! 		
	+1	_	_	_	_	_		-
	+2	-	_	_	-	^	-	_
	1m1							
	+1		_	_	_	1	^	-
	+2		_	_		-	_	-

Thioglycolate Broth Date Media was made :-24 Hour Incubation:

Sample:		2	3	4	5	6	7
5m1							
+1	_	•	(1	1	(,
+2	-	(•	-	_	()
lml							
+1	_)	,	, person		-
+2		, 43 2.	-	,	-	_	_

Re**s**eeds
Types: Wosdwd
Sample: 5-0

Temperature: 20°C

I. Trypticase Soy Broth:
Date Media was made:

II. Thioglycolate Broth Date Media was made: — 24 Hour Incubation:

ation:				Days			
		2	3	4	5	6	7
5m l							
+1	-	_	_	_	l	1	_
+2	1	_	_	_	_	-	1
+1		-	_	,	_	-	_
+2	(_	_	_	_	-	~
	+1 +2 Imi +1	5m1	5m1	1 2 3 5m1 +1 +2 1m1 +1	1 2 3 4 5m1	1 2 3 4 5 5m1 +1	1 2 3 4 5 6 5m1 +1

Re**s**eeds Types: Sample: 8-0 Temperature: 20°C

Trypticase Soy Broth:
Date Media was made:

Days 24 Hour Incubation: Sample: 2 3 5 5ml +1 +2 lm1 +1

Thioglycolate Broth 11. Date Media was made: 🕶

24 Hour Incu

+2

Hour Incubati				Days			
Sample:	1	2	3	4	5	6	7
<u>5</u> m							
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+2	2		-molton.	- MARIEN	parties.	1	population.
Iml							
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+2	2		4000			,	5,577.504

Raw Data Producer E

CONTROL: \C		ΤE	MPE	RAT	URE:	37						
CEN COUNT	_	ر چ.	10	نى								
Trypticase Soy Broth: Date Media was made: 24 Hour incubation:						· <u></u> · · ·					,	
Days (1-14)	1 ;	2 . 3	, 4	5	6	7 8	9	10	, 11	112	13	14
Blank Control: #I	 - -	- -	-	-	-	- -	-	-	-		7	-
#1 #2	- -	- -	-	-	-	- -		!				
Control Dilutions-Seeded:	+ 1	1 4	+	1	4 4	4	+	+	+	+	+	+
10-2	+ 3		\$	ı	1	h +	+	+	+	+	۲	+
10-43	+ +			-	`	4 +	+	1	+	+	+	+
10-84			450				-	-	-	-	_	-
10-85								•			1	
Seeded Dilutions-Glycerine-Iml:	1 4	+	4	4	4.	+ +	+	1	+	+	+	+
10-5 10-6	1 3	- 4	+	اسها	.	+ +	+	+	+	1	F	+
10-7 4	+ 4	+ +	4	*	4.	4 4	+	+	+	1	+	4
10-8 5	+ 4	4 4	4	4	4	+ +	+	٦	*	+	+	+
Seeded Dilution-Glycerine-5 ml.											+	+
10-			*	*	ł	4 7	4	+	+	+	+	+
10- 6 3	- -	- -	-	*	*	+ +	+	+	+	+		+
10-74	- 1	- -	-	4	·**	+ +	+	+	,	7	+	_
10-8 5	- -	- -	"		-	- =	-		-			
Thioglycollate Broth: Date Media was made: *** 24 Hour incubation:			1	2	· .	<u>, </u>	:		<u> </u>			
Days (1-14) Blank Control:	1 2	.3	4	5	6	7 8	9	10	11 1	12	13	14
#1	- -	. _						-	-	-	-	-
#2 Control Dilutions-seeded:	-	-	-	*	•	-	-	-	_	7	-	-
10-2	7 4	k *	7	7	7 7		+	+	+	+	+	+
10-43	1 4 2	4 3	1	*		* +	+	+	+	,	+	+
10-84	4 7	4	3	*	1.		1	14	+	1	+	+
10-85	+ 4	- 4	4	+	4 -	A .	+	+	+	+	+	+
Seeded Dilutions-Glycerine-Iml:	1.1.		1		4 -	£ +	+	1	1	+	+	1
10-6 3	1.1.1	+ 4	1.	4		•	1	4	+	+		+
10-74		+ ++	1.	4-	4 1		1	1	+		+	+
10-8 5	+ 3	*	7		1 1	+	Ŧ	1	+	+ +	+	+
Seeded Dilutions-Glycerine-DMI:				-	·	'				1		
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10-7 4	- -	- -				- =	=	-	-	-	-	_
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	CONTROL: 3	を TON	l	TE	MPE	RAT	URE	:							
	CEN COUNT			F	X /	os	,								

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1.	Trypticase Soy Broth: Date Media was made: ~ 24 Hour incubation:	_		_	•					_					
Α.	Days (1-14) Blank Control: #1	-	-	- -	4	-	-	-	-	9	10	-	112	13	14
В.	#2 Control Dilutions-Seeded:	7													
	10- ² 10- 43	#	+ +	and also	ما ما ما	7 4 4	+	7	+++	4 + +	+ +	+++	+ + + +	+++	٠ ر -
	10-84	+	+	Ą	- 4 00	د	부	٤	+	+	+	+	\$-	† t	+
С.	Seeded Dilutions-Glycerine-Iml: 10-32	++	1	ナ	‡		7	7	1	1	3	1	+1	1	1
	10-8 3 10-7 4 5	7 7	1	† Ť	7	7 + 4	1 1	7 7	الله الله الله		7	1 1	4	1++	1 1 1
D.	10-P Seeded Dilution-Glycerine-5 ml:			4	' 				-						-
	10-92	-			-		-				-				a: ani
	10-7 4	-		-	-	-		-	-		-	-	-	an	-
11.	Thioglycollate Broth: Date Media was made: **** 24 Hour incubation:			<u> </u>							·	1 <u>.</u>	. l		<u></u>
Α.	Days (1-14) Blank Control: #1	1	2	,3	4	5	6	7	8	9	10	-	12	13	14
В.	#2 Control Dilutions-seeded:		,								4			, 	
	10-2	+	1	4	7	1	7	1	+	+	1	+	+	1	1
	10-43	+	1,	+	+	+	+	+++	+++	+	1	サナナナ	+ + +	1	+
	10-9 4	+	1	+	+	+	++	+	4	+	+	+	1	4	
c.	10-8 Seeded Dilutions-Glycerine-Iml:	7													,
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	10-6 %	1	- 5	1	4	-	4	ナニイ	+	+	+	1	1	-4-	1
		7	7	コイ	7	4	4	1	ユー	+	7.	نا	*	٠.	
D.	10-7 10-875 Seeded Dilutions-Glycerine-5ml:					1									
	10-63	-	-	-	-	-	-	-	-	_	_	-	_	-	
	10-7 4	-	-	-	-	-	-	-	-	~	-	_	_	=	-

SAMPLE: \ E TEMPERATURE: 37° IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: **** 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 , 12 , 13 , 14 available) 10ml #1 #2 5ml #1 #2 Iml #1 #2 11. Thioglycollate Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is , 12 , 13 , 14 2 4 6 7 10 11 available) 1 Om 1 #1 #1 5m1 #1 #2

1ml #1 #2

SAMPLE: 2 TEMPERATURE: 37°
IDENTIFICATION:

			 	
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	·····		 	

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

II. Thioglycollate Broth
Date Media was made: 24 Hour Incubation:

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(where supp	ly i	S
available)	Om I
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	#	2

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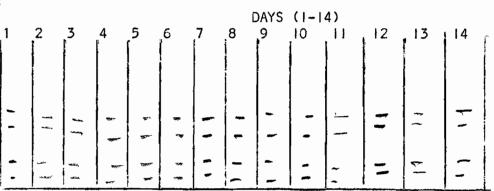
1	2	٦.	1	5	6	7	8	DAYS 9	(1-1- 10	4) 	, 12	, 13	; 14 ,
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SAMPLE: 3 F TEMPERATURE: 370

IDENTI	FICATION:	

I. Trypticase Soy Broth Date Media was made: *** 24 Hour Incubation:

SAMPLE
(where supply is available) | 10ml #1 #2 5ml #1 #2 | 1ml #1 #2



II. Thioglycollate Broth
Date Media was made: —
24 Hour Incubation:

SAMPLE
(where supply is available) | IOml | #1 | #1 | 5ml | #2 | 1ml | #1 | #2

<u>,</u> 1	2	3	4	5	6	7	, 8	DAYS 9	(1-1 10	4) 	, 12	13	14 r
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SAMPLE: 4 F TEMPERATURE: 370 IDENTIFICATION:____ 1. Trypticase Soy Broth Date Media was made: **** 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 12 available) 10ml #1 #2 5m1 #1 #2 lm! #1 #2 II. Thioglycollate Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 6 11 , 12 , 13 , 14 2 7 8 10 available) 10ml #1 #1 5m1 #1

> #2 1m1 #1 #2

SAMPLE: 5 = TEMPERATURE: 370
IDENTIFICATION:

	Incubation															
SAMI	PLE									DAYS	(1-1	4)				
(where supply	is	1	2	.3	4	5	.6	7	.8	9	10	11	. 12	. 13	14	,-
available)	I Om I		i				ĺ				į į					
	<i>#</i> I]				ł	i		ļ							
	#2	ļ '		ļ					Ì							ı
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II. Thioglycollate Broth Date Media was made: ** 24 Hour Incubation:

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(where suppl	y is
avallable)	l Om I
	#1
	#1
	5m l
	<i>#</i> 1
	#2
	1m i
	#1
	#2

,1	2	3	,4	5	6	7	, 8	DAYS 9	(1-1- 10	4) 	, 12	13	14 f
-	-	_	ميجود	SERVICE.	وع	_	_	-	_	_			
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-	_	_	est.	annya smo ₂	*4.93 *	Ξ	-	-	-	_	1	=	

SAMPLE: 6£ TEMPERATURE: 370 IDENTIFICATION: Trypticase Soy Broth Date Media was made: 🕶 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 available) 10ml #1 #2 5ml i# | #2 Iml #1 #2 Thioglycollate Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) 8 10 11 , 12 , 13 , 14 (where supply is 6 available) 10ml #1 #1 5m1 #1 #2 1ml

> #1 #2

TEMPERATURE: 370 SAMPLE: 7E IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) , 12 , 13 , 14 (where supply is 10 11 available) 10ml #1 #2 5m1 #1 #2 1m1 #1 #2 II. Thioglycollate Broth Date Media was made: ---24 Hour Incubation: SAMPLE

SAMPLE
(where supply is available) | IOml | #1 | #1 | 5ml | #2 | 1ml | #2

	DAYS (1-14)												
1	2	3	4	5	6	7	8	9	10	11	, 12	i 13	14 r
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SAMPLE: 8 F TEMPERATURE: 370 IDENTIFICATION: Trypticase Soy Broth Date Media was made: 🖚 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 available) 10ml #1 #2 5ml #1 #2 lml #1 #2 Thioglycollate Broth 11. Date Media was made: ---24 Hour Incubation:

	SAME	LE
(where sup	ply	is
availabl	e)	10m l
		#1
		#1
		5m1
		#1
		#2
		1ml
		#1
		#2

						DAYS (1-14)								
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SAMPLE: 9E TEMPERATURE: 310
IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE (where supply is available) | 10ml #1 #2 5ml #1

					DAYS (1-14)									
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II. Thioglycollate Broth Date Media was made: — 24 Hour Incubation:

#2 1m1 #1 #2

SAMPLE
(where supply is available) 10ml
#1
#1
5ml
#1
#2
1ml
#1
#2

							(DAYS	(-	4)			
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SAMPLE: 10 F TEMPERATURE: 37°

IDENTIFICATION:	

Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE									DAYS	(1-1-	4)				
(where supply is	1	2	3	4	5	6	.7	.8	9	10	11	. 12	. 13	14	~
available) 10ml		i	Ī		ĺ	Ì		1	•	i	i				
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#2	-	-	=	****	-	-	-	-	-	-	_	-	_	-	

II. Thioglycollate Broth Date Media was made: 24 Hour Incubation:

S	SAMPLE			
(where supp	lу	is		
available)	1 0m 1		
	i	#1		
	;	#1		
	!	5m I		
	i	#1		
	1	#2		
		1m I		
	i	#		
		#2		

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Regeeds Types: Nogatul

Sample: 2-E

Temperature: 37°c

Trypticase Soy Broth: Date Media was made:

24 Hour

Hour Incub	ation:				vays			
Sample:		1	2	3	4	5	6	7
	5m1							Ì
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	+2		Waltie-	_	_	~	-	-
	lml							
	+1	-	 .	(person)	-	_	1	_
	+2	<i></i>			-		-	•

Thioglycolate Broth Date Media was made: ---

24 Hour Incubation:

Sample:		2	3	4	5	6	7
5m1							
+1	_	_	_	-	_	-	-
+2	1	_		•	_	-	-
lm!							
+1	_			_	_	-	_
+2		-	-	-	_	-	_
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Re**c**eeds Types: Negative

Sample: 4-E

Temperature: 37°C

Trypticase Soy Broth: Date Media was made:

24 Hour Incubation:

Days	•
_	-

Sample:

	1	2	3	4	_5	6	
5m1							
+1	1	ſ	•)	-	-	
+2	_	_		1	_	-	
1 m l							
+1	1	_	_	-	-	-	-
+2		_		_	-	-	-

Thioglycolate Broth
Date Media was made: -

24 Hour Incubation:

Days

Sample:

		2	3	4	5	6	7
5m1							
+1	***	_	****	-	-	1	-
+2	_			-	-	-	_
lml							
+	+	_	~	-	-	-	-
+2	-	_		-	_	1	-

Receeds
Types: Wagature

Sample: 6-E

Temperature: 37°C

I. Trypticase Soy Broth:
Date Media was made:

11. Thioglycolate Broth Date Media was made: —

24 Hour Incubation: Sample:

+2

1	2	3	4	5	6	7
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Receds
Types: Wogatwl

Sample: 8-F

Temperature: 37°C

1. Trypticase Soy Broth: Date Media was made: **

24 Hour Incubation:

Days

four Incubation: Sample:

	1	2	3	4	5	6	7
5m I							
+1	-	-	-			-	-
+2	~		_	_	-	_	-
1m1							
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II. Thioglycolate Broth

Days

Sample:

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5m1							
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	control: 3	E ION		TEI	MPE	RAT	URE	 : S	90						
	CEN COUNT		_3	· &	K	10	<u>s'</u>	 ,							
•	Trypticase Soy Broth: Date Media was made: 24 Hour incubation: Days (1-14)		; 2	3	. 4	. 5	1 6	. 7	i 8	- ; 9	, 10	, 1 1	112	ı13	,14
Α.	Blank Control: #1 #2	-	- -	-	-	-	712	-	-	_	-	=	-	=	
В.	Control Dilutions-Seeded: 10-2 10-43 10-94 10-95		, , , ,	1 1 1 1	4 + 1 1	++	7+ +1	+ +	T + + -	+ + +	+	+ + + +	+ + ++	+ + + +	1 + + +
С.	Seeded Dilutions-Glycerine-Iml: 10-92 10-93 10-94 10-95 10-95			-	-	+ +	+ + + 1 +	+ + -	+++-	+ + + +	+ + + + + +	+ + + +	+++	++++	+++
D.	Seeded Dilution-Glycerine-5 ml: 10-5 2 10-6 3 10-7 4 10-8 5	-		10.		-			1 1 1			1111		11 1	
١.		1	2	,3	4	. 5	6	. 7	, 8	, 9	10	11	12	13	14
Α.	Blank Control: #1 #2	-	-	-	COMMEN		20	=	-	-	1	=	=	- -	-
В.	Control Dilutions-seeded: 10-2 10-43 10-45 10-85				-	-	# CO.	* +	+++-	++++	ナンナナ	h + + +	+ + ++	+ + +	+ + +
С.	Seeded Dilutions-Glycerine-Iml: 10-52 10-63 10-64 10-65 10-65 10-65 10-65		1 1 1 -		Mar.	200	20°	-	+ + + -	++++	+ 4 4 +	++	+ + + +	+	+ + -
D.	Seeded Dilutions-Glycerine-5ml: 10-83 10-74 10-85		. 1 1		200 200 200 200 200 200 200 200 200 200	, 4,	150 150 150 150 150		1 1 1				1 - 1	_	-

a contract

IDENTIFICATION	TEMPERATURE: 20°
CEII Count 2	P. 8 x 105

- 1. Trypticase Soy Broth: Date Media was made: ----24 Hour incubation:
 - Days (1-14)
- Blank Control:

#1 #2

Control Dilutions-Seeded:

10-2

10-45

10-84 10-85

Seeded Dilutions-Glycerine-Iml:

10-52

10-93

10-7

10-8/5

Seeded Dilution-Glycerine-5 ml:

10-5/ 2

10-93

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Thioglycollate Broth:

Date Media was made:

24 Hour incubation:

Days (1-14)

Α. Blank Control:

#1

#2

Control Dilutions-seeded:

10-2

10-43

10-6/4

10-85

Seeded Dilutions-Glycerine-Iml:

10-6,3

10-7/4 10-8,5

Seeded Dilutions-Glycerine-5ml:

10-8 5
10-8 5

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SAMPLE:) TEMPERATURE: 700

IDENTIFICATION:

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I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE								[DAYS	(1-1	4)				
(where supply is	1	2	3	4	5	6	7	.8	9	10	11	. 12	. 13	14	
available) 10m1			ľ	Î	{	Ì		İ		i					
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II. Thioglycollate Broth
Date Media was made: ———
24 Hour Incubation:

SAM	PLE
(where supply	is
available)	1 0m 1
	#1
	#1
	5ml
	<i>╬</i> 1
	#2
	1 m l
	#1
	#2

								[DAYS	(1-1	4)			
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SAMPLE: 25 TEMPERATURE: 200

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE
(where supply is available) 10ml
#1
#2
5ml
#1
#2
1ml
#1

							[DAYS	(1-1-	4)				
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II. Thioglycollate Broth
Date Media was made: 24 Hour Incubation:

SAMPLE
(where supply is available) | IOml | #1 | #1 | 5ml | #2 | 1ml | #1 | #2

1	2	3	4	,5	6	7	8	DAYS 9	(1-1- 10	4) 	12	13	114 f
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SAMPLE: 3 E TEMPERATURE: 200

IDENTIFICATION:

 Trypticase Soy Broth Date Media was made:

24 Hour Incubation:

SAMPLE								٥	AYS	(1-14	4)			
(where supply is	,1	2	,3	4	,5	6	7,	,8	9	10	Π,	12	13	14
available) 10ml							j	•						
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#2														
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II. Thioglycollate Broth Date Media was made: 24 Hour Incubation:

	SAME	'LE
(where su	ply	is
availab	le)	10m1
		#1
		#1
		5m l
		# 1
		#2
		1ml
		#
		#2

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-	1 1	f f	-	-		,	-	_		=	-	1	-
1	2	3	4	5	6	7	8 	DAYS 9	(- - 0 	4) 	12	13	14

TEMPERATURE: 200 SAMPLE:4E IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: DAYS (1-14) SAMPLE , 12 , 13 , 14 (where supply is 10 11 available) 10ml #1 #2 5m1 #1 #2 Iml #1 #2 Thioglycollate Broth 11. Date Media was made: -24 Hour Incubation:

	SAME	PLE
(where sup	ply	is
availabl	e)	I Om I
		#1
		#1
		5m1
		#1
		#2
		1m I
		#1
		#2

,1	2	3	,4	5	6	.7	, 8	DAYS 9	(1-1- 10	4) 	, 12	13	14 r
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SAMPLE: 5E TEMPERATURE: 700

IDENTIFICATION:

1. Trypticase Soy Broth Date Media was made: *** 24 Hour Incubation:

	SAME	LE
(where su	pply	is
availab	le)	10ml
		#1
		#2
		5m1
		#1
		#2
		tmi
		#1
		#2

-								DAYS	(1-1	4)				
1	,2	<u>,</u> 3	4	,5	,6	,7	.8	9	10	, 11	12	13	14	ſ
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II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

SAME	PLE
(where supply	is
available)	1 0m I
	#1
	<i>#</i> 1
	5m l
	i_r'' 1
	#2
	1ml
	#
	#2

1	2	3	4	5	6	7	8	AYS 9	(1-14 10	4) 	12	13	14 [
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SAMPLE: & TEMPERATURE: 70 0

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made:

24 Hour Incubation:

SAMPLE								[DAYS	(1-1-	4)				
(where supply is	_1	2	3 _	4	5	6	.7	.8	9	10	11	. 12	. 13	14	۲
available) 10m				Î		[į	i				
#1	1	ļ				i									l
#2	1		1												ĺ
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#2	-		20000	-		*2562*		-		-				_	

II. Thioglycollate Broth Date Media was made:
24 Hour Incubation:

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(where supply	/ is
available)	1 Om 1
	#1
	#1
	5m l
	#1
	#2
	1 m l
	#1
	#2

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1	2	3	4	5	6	7	8 	DAYS 9	(1-1- 10	4) 	12	13	14	ſ

SAMPLE: 7E TEMPERATURE: 70 0 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 . 12 . 13 . 14 available) | Oml #1 #2 5m1 #1 #2 Iml #1 #2 Thioglycollate Broth Date Media was made: ----24 Hour Incubation: SAMPLE DAYS (1-14) 8 10 - 11 , 12 , 13 , 14 (where supply is 6 available) I Om I #1 #1 5m1 #1 #2

8

₹ :

R. S. S.

1m I # I #2 SAMPLE: 8 F TEMPERATURE: 200

IDENTI	FICATION	!:

1. Trypticase Soy Broth
Date Media was made:

24 Hour Incubation:

SAM	PLE									DAYS	(1-14	4)				
(where supply	is	1	2	.3	4	5	6	,7	.8	9	10	11	. 12	. 13	14	ř
available)	I Om I		j				Ì	ĺ	İ		i					
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II. Thioglycollate Broth Date Media was made: ---24 Hour Incubation:

SAM	PLE
(where supply	is
available)	I Om I
	#1
	#1
	5m1
	#1
	#2
	lm I
	#1
	#2

									DAYS	(1-1-	4)			
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SAMPLE: 9 TEMPERATURE: 20°

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: _____ 24 Hour Incubation:

SAMPLE								[DAYS	(1-1	4)				
(where supply is	1	2	.3	4	5	.6	7	.8	9	10	11	. 12	. 13	14	,~
available) Oml			1	ľ	[1	1	ĺ		į	i				
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II. Thioglycollate Broth
Date Media was made: ***
24 Hour Incubation:

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(where supply	/ is
available)	10m1
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	#1
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	#1
	#2
	1 m l
	#1
	#2

							[DAYS	(1-1	4)			
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	l	L	I	l	L			L			L		J

SAMPLE: 10 E TEMPERATURE: 200 IDENTIFICATION: Trypticase Soy Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 12 . 13 ! 14 available) 10ml #1 #2 5m1 #1 #2 imi #1 #2 Thioglycollate Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) 6 7 8 10 - 11 , 12 , 13 , 14 (where supply is available) 10ml

+

#1 #1 5ml #1

#2 1ml #1 #2 Regeeds
Types: Nogative
Sample: 2-E

Temperature: 20°C

I. Trypticase Soy Broth: Date Media was made: ****** 24 Hour Incubation:

Hour Incuba	ation:				Days			
Sample:		1	2	3	4	5	6	7
	5m1							
	+1	1	_	~~	-	-	-	-
	+2	per la companya de la		_	-	_	_	-
•	lmi							
-	+1	. —	_			-	_	-
	+2	_			-	-	-	-

II. Thioglycolate Broth
Date Media was made: ***

+2

Reseeds

Types: Wogative

Sample: 4 E

Temperature: 20°C

Trypticase Soy Broth: Date Media was made: 🖛

24 Hou

Media was Hour Incul		March.			Days			
Sample:		1_	2	3	4	5	6	7
	5m1					<u> </u>		
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	+1)	-	_	_	-	-	_
	+2	-	-	_	-	-	-	

Thioglycolate Broth Date Media was made: """

24 Hour Incubation: Sample:

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5m	1							
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Im								
+		(_)	-	-	-	-
+	2	(2007)	, emo.		_	-	_	_

Reseeds

Types: Wegature
Sample: 6-E

Days

Temperature: 20°C

Trypticase Soy Broth:
Date Media was made: ---

24 Hour Incubation:

Sample:	1	2	3	4	5	6	7
5m I							
+1	•	_	•	-	_	-	-
+2	~	_	_	_	-	-	•

lml +1 +2

Thioglycolate Broth

Date Media was made: -

24 Hour Incubation:

Da	٧	S

Sample:	<u> </u>	2	3	4	5	6	7
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+2	_	_		-	_	_	-

Regeeds
Types: Wegative
Sample: 8 E

Temperature: 20°c

I. Trypticase Soy Broth:
Date Media was made:

II. Thioglycolate Broth Date Media was made: — 24 Hour Incubation:

Sample:	l	2	3	4	5	6	7
5m!							
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+2	~			•	-	-	-
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+2	-			-	-		-

Raw Data Producer F

	CONTROL: 'IDENTIFICAT	7 F 10N		TE	MPE	RAT	URE	: 3	7)					
	CEII Course			6	XI	05	,								
١.	Trypticase Soy Broth: Date Media was made: 24 Hour incubation:		. 2	7		. 6		. 7	. 0	- i 9	, 10	1.1	112	113	:14
Α.	Days (1-14) Blank Control: #1 #2	-	4	-	-	- L	-		8			25.56°	-		-
В.	Control Dilutions-Seeded: 10-2 10-43 10-6 10-6 5	++++		+ +	フォニュ	4	4 4 4		And the second an analysis are a second and the sec		The first the state of the stat	£ & **		- +	ナナル
С.	Seeded Dilutions-Glycerine-Iml: 10-\$2 10-\$3 10-\$4 10-\$5 10-\$8	ナナナナナ	1 + + A	4-1-1-1		エンチャ	and the state of	Service of the servic	English and a second	A STATE OF THE STA		of of or			ナファ
D.	Seeded Dilution-Glycerine-5 ml: 10-8 2 10-6 3 10-7 4 10-8)))	-			1 1 1			, , ,				1 1 1	1 1 1
11. A.	Thioglycollate Broth: Date Media was made: 24 Hour incubation: Days (I-I4) Blank Control:	1	2	.3	4	5	6	7	. 8	9	10	11	12	13	14
В.	#1 #2 Control Dilutions-seeded:	-	-	-	-	_		_		-	_	_	-	-	~
	10- ² 10- ⁴ 3 10- ⁴ 4 10- ⁸ 5	å.	t + + x	ナイナ	ナナナ	+ 1 4 +		7 1 4	++++	1 +++	++++	1+++	44+1	4++	7+++
C.	Seeded Dilutions-Glycerine-Iml: 10-32 10-63 10-7 10-7 10-7	ナナナナ		7 4		4414	+ + + +	1-1-1-4	L L L J.	7. 1. 1.		4-4-4	+		+++++
D.	Seeded Dilutions-Glycerine-5ml: 10-3 3 10-7 4 10-8 5	- 1	1 1 1								-		1 1 1	1 1 1	1111

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and a second

	CONTROL: \F	ION						·8:	1						
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•	Trypticase Soy Broth: Date Media was made: 24 Hour incubation:		. 0	7	4			, 7	: O	. 0	10	. 1	.12	. 1 2	. 1 4
Α.	Days (1-14) Blank Control: #1	-	-	- -	4		- D		8	9	10	1	2 -	13	14
В.	#2 Control Dilutions-Seeded:		-	-		-	-	-		_	-		1		
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	10-\$4 10-\$5	+	4	+	*	4-	*	+	* *	+	4	* *	+	ナ	7
c.	Seeded Dilutions-Glycerine-IMI:			•	4	1	۴	•			,			and the second second	
	10-\$\beta^2 \\ 10-\beta^3 \\ 4	+	+	+	4	+	+	-	+	4	+	1.	+	+	7
	7 7	+	4	+	*	عات	7	+	j j	+	+	*	+	+ +	+
D.	10-8	1	4	+	*	*	+	+	*	+	+	-	+	+	1
υ.	Seeded Dilution-Glycerine-5 ml:	-	-	4	+	4	ŀ	+	+	4	4	+	4	+	7
	10-4	-	-	-	*	- Table	B	-	_	-	-	-	-	-	-
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۱.	Thioglycollate Broth: Date Media was made: 24 Hour incubation:	L	<u> </u>	· <u></u>											
Α.	Days (1-14) Blank Control:	1	2	,3	4	5 	6	7	8	9	10	11	12	13	14
	#1 #2	-	-	_			763	-		_	-	-	=	-	-
В.	Control Dilutions-seeded:	1	4	4	4		4	4	+	+	+	1	+	+	1
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c.	Seeded III IIIT ODG-GIVCETINE-IMI	7	4	*	#	3	+	*	•	,		+	+	+	7
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_	10-8	7	4	4	1	-	+	4	+	4	*	++	7	+	ナア
D.	Seeded Dilutions-Glycerine-5ml:	-		•	-		-		~	-	~	-	-	7.	-
	10- 74 10- 85	- -	~	-			**************************************	300	=	_	-	=	=	=	

SAMPLE: IF TEMPERATURE: 87°
IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

SAMPLE								Ī	DAYS	(1-1)	4)			
(where supply is	1	2	,3	<u>4</u>	,5	_, 6	,7	, 8	,9	10	. 11	12	13	14
available) 10m1	ł			ĺ		ļ								
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#2	ļ		-	-			_		_				_	- 1
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#2	_	-	_	-	200-	12330-	-	-	—	_		_	_	-

II. Thioglycollate Broth Date Media was made: _____ 24 Hour Incubation:

	SAMP	LE
(where sup	ply	is
availabi	e)	10m l
		#1
		#1
		5m l
		#1
		#2
		1ml
		#1
		#2

_	_	_	_	_					(1-1				
1	2	3 1	4 i	5 1	6 I	7 1	8 i	9	10	 	12	13	14
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	Ľ			-			<u> </u>			L	ļ	ļ	<u> </u>

SAMPLE: 37° IDENTIFICATION: 1. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) , 12 , 13 , 14 (where supply is 10 11 available) | 10ml #1 #2 5m I #1 #2 1m1 #1 #2 11. Thioglycollate Broth Date Media was made: --24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 11 , 12 , 13 , 14 6 7 8 10 available) 10ml #1 #1 5ml #1 #2 1m l #1 #2

 $\xi^{-}:$

SAMPLE: 今下 TEMPERATURE: 376
IDENTIFICATION:

 Trypticase Soy Broth Date Media was made:
 24 Hour Incubation:

SAMPLE
(where supply is available) | IOml #1 #2 | 5ml #1 #2 | 1ml #1 #2

								DAYS	(1-1	4)				
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II. Thioglycollate Broth Date Media was made: 24 Hour Incubation:

SAMPLE
(where supply is available) | IOml | #1 | #1 | 5ml | #2 | 1ml | #1 | #2

,1	2	3	, 4	.5	6	7	, 8	DAYS 9	(1-1 10	4) 	, 12	13	114 f
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-	=	=	44.) 404.	ज्वहार जन्म/	**	ī	_	-	-	-	_	2	

SAMPLE: 4F TEMPERATURE: 870 IDENTIFICATION: Trypticase Soy Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 12 13 14 available) | Oml #1 #2 5ml #1 #2 Iml #1 #2 11. Thioglycollate Broth Date Media was made: 🕶 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 6 7 10 11 . 12 available) 10ml #1 #1 5m1 #1 #2

erved become

1m1 #1 #2

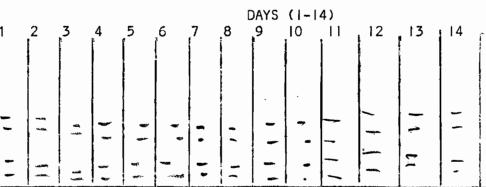
per constant

SAMPLE: 5F TEMPERATURE: 37°
IDENTIFICATION:

	•
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<u> </u>	

 Trypticase Soy Broth Date Media was made:
 24 Hour Incubation:

SAMPLE
(where supply is available) 10ml
#1
#2
5ml
#1
#2
Iml
#2



II. Thioglycollate Broth
Date Media was made: 24 Hour Incubation:

SAMPLE
(where supply is available) | IOml #1 #1 5ml #2 1ml #2

,1	2	3	4	5	6	.7	, 8 ,	DAYS 9	(1-1- 10		, 12	13	14 r
_]]	10 000	**************************************	1897 1888	-	1.1	_		- -	_	1 1	- 1
- 1	11	1	· contr	***		=	=	- 1	, ,	<u>-</u>	-	1.	-

SAMPLE: 6F TEMPERATURE: 370 IDENTIFICATION: 1. Trypticase Soy Broth Date Media was made: *** 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 available) 10ml #1 #2 5ml #1 #2 lml #1 #2 Thioglycollate Broth Date Media was made: --24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 6 7 8 available) 10ml #1 #1 5m l

> #1 #2 1m1 #1 #2

SAMPLE: TEMPERATURE: 37°
IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE								[OAYS	(1-1	4)				
(where supply is	1	2	.3	4	5	.6	.7	.8	9	10	11	, 12	. 13	! 14	c
available) 10m1	1	1	F	ľ	ſ	ĺ	1	İ		İ	i		•	1	
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II. Thioglycollate Broth
Date Media was made: ***
24 Hour Incubation:

SAMPLE (where supply is	1	2	3	4	5	6	7	8	DAYS 9	(1-1 10	4) 11	, 12	. 13	14 .
available) 10ml #1 #1	l	•												
5ml ∦1 #2 1ml	-		eccept horses	-	-		-	-	-	-	_	1	1.	-
# I #2	-	unil unil		-	***	-	-	1	_	=	2		1	

SAMPLE: 8F TEMPERATURE: 370 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: --24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 , 12 , 13 ; 14 available) 10ml #1 #2 5ml #1 #2 lmi #1 #2 Thioglycollate Broth 11. Date Media was made: 🖛 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 6 8 10 11 , 12 13 14 available) 10ml #1 #1 5ml

derotava

#1 #2 1m1 #1

1.3

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by a service of

SAMPLE: 9F TEMPERATURE: 310

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: — 24 Hour Incubation:

SAMI	PLE								ĺ	DAYS	(1-1	4)				
(where supply	is	1	2	3	4	5	6	7	.8	9	10	11	. 12	. 13	14	r
available)	10m1					[ĺ		İ	[İ					
	<i>#</i> I				ļ		i	-]							
	#2				•		ĺ		İ							
	5m1					!!						_	-	_		l
	#1	-	-	-	***	4792	150	***	-	_	•	_	_	 ,	~	
	#2	-		-		-	359		-	_	-				1	Ì
	lml													~		•
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	#2	-	_		-591·	~2550	::0gg	-	-	-	-					

II. Thioglycollate Broth Date Media was made: ** 24 Hour Incubation:

SAM	PLE
(where supply	is
available)	I Om I
	#1
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	5m1
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	#2
	1m I
	#1
	#2

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-	1000s	-	- دونات	2945-0 2840	andi	-	12	=	-	~-	1	11	-

SAMPLE: 10F TEMPERATURE: 370 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: ' 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 11 , 12 , 13 , 14 available) I Om I #1 #2 5m I #T #2 Iml #1 #2 Thioglycollate Broth Date Media was made: 🛥 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 6 7 8 10 -11 , 12 , 13 ; 14 available) 10ml #1 #1 5m1

> #1 #2 1ml #1 #2

Regeeds

Types: Nogative

Sample: 2 F

Temperature: 37°C

I. Trypticase Soy Broth: Date Media was made: ***

24 Hour Incubation:

Days

Hour Incubation Sample:

	1	2	3	4	5	6	7
5m1							
+1	_	_	-	-	-	1	_
+2	~	1		-	_	_	-
lml							
+1	1	-	_	_	_	_	-
+2	~	_	<i></i>		-	_	-

II. Thioglycolate Broth

Date Media was made:

Days

24 Hour Incubation: Sample:

e:		<u> </u>	2	3	4	5	6	7
	5m I							
	+1	•	•	_	_		7	1
	+2		_	-Capp	_		1	_
	lml							
	+1	-	(_	-	_	-	-
	+2					-	_	,

Types: Wegative

Sample: 4-F

Temperature: 37°C

I. Trypticase Soy Broth:
Date Media was made:

II. Thioglycolate Broth Date Media was made: ** 24 Hour Incubation:

Sample:		2	3	4	5	6	7
5m1			İ			į	
+1	_	_	_			_	-
+2	_	_	_	_	_	~	-
lml							
+1	_	_	_	_	_	_	-
+2	_			-	_	_	-

Types: Wogerfue

Sample: <u>7-F</u>

Temperature: 37°C

I. Trypticase Soy Broth: Date Media was made:

24 Hour Incubation:

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νa	ΥÞ

Sample: 1 2

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lml							
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II. Thioglycolate Broth

Date Media was made:

Days

24 Hour Incubation: Sample:

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5m1							
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lm!							
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+2		_	_	****	-	_	-

Re**g**eeds

Types: Wegative

Sample: 10-F

Temperature: 37°C

I. Trypticase Soy Broth: Date Media was made: ***

24 Hour Incubation:

Days

Sample:

	1	2	3	4	5	6	7
5m1							
+1	_	_	_	_	-	_	_
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lml			ĺ				
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II. Thioglycolate Broth

Date Media was made: ***
24 Hour Incubation:

Sample:			2	3	4	5	6	7
	5m1							
	+1	_	-	-	_	_	_	-
	+2	_	_	^	_	_	-	
	1ml							
	+1		_		_	_	_	_

CONTROL: 1 -	TEMPERATURE: 20
CEII Count	9.6 × 105

- I. Trypticase Soy Broth: Date Media was made:
 24 Hour incubation:
 - Days (1-14)
- A. Blank Control:

\$

π· #2

B. Control Dilutions-Seeded:

C. Seeded Dilutions-Glycerine-Iml:

D. Seeded Dilution-Glycerine-5 ml:

II. Thioglycollate Broth:

Date Media was made:

24 Hour incubation:

Days (1-14)

A. Blank Control:

#1 #2

B. Control Dilutions-seeded:

C. Seeded Dilutions-Glycerine-Iml:

10-	
10-6-	-3
10-7	-4
10 8	-5

D. Seeded Dilutions-Glycerine-5ml:

-	2	3	4	5 -	6	7	8	9	10		12	13	14
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1 1 1	1 1 1		1 1 1 .)		+	+ +	+++	+ + + +	すけす	+ + 1 +	+ + +	+ + + +	+ 4 + +
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١.	Trypticase Soy Broth: Date Media was made: *** 24 Hour incubation:									-					
Α.	Days (1-14) Blank Control: #1 #2	-	2	3	4	5	6	7	8	9	10	=	112	13	14
В.	Control Dilutions-Seeded: 10-2 10-45	, , , ,			+ + +	+++	* + + +	トナ	+++-	+++	+ + +	+ + +	+ + +	ト ト ナナ	++++
С.	Seeded Dilutions-Glycerine-Iml: 10-9 3 10-9 3 10-7 5 10-8	, , ,			+, -	+	4 - 1	++	* + + -	+ +++	+ + +	++++	++++	+++	++++
D.	Seeded Dilution-Glycerine-5 ml: 10-32 10-33 10-34 10-35 10-35))				-				, , , ,		1 1 (11 11	
11.	Thioglycollate Broth: Date Media was made: *** 24 Hour incubation: Days (1-14)	1	2	,3	4	5	6	. 7	, 8	9	10	11	12	13	14
Α.	Blank Control: #1 #2	-	-	-	,	,	,	-		-	-	-	 -		-
В.	Control Dilutions-seeded: 10-2 10-4 10-6 10-8					-	1 1	-	+ + ++	+++	+ + +	+++++++++++++++++++++++++++++++++++++++	+ + +	++++	+++
С.	Seeded Dijutions-Glycerine-Iml: 10- 10- 10- 10- 10- 10- 10- 10- 10- 10	-			any and a second	Mayor I		Ser.	マナナーン	+++1	+ + + +	++++	+ + +	++++	**++
D.	Seeded Dilutions-Glycerine-5ml: 10-52 10-73 10-85			-	ation of the state	econo.	-	No.					1	1 1 1 1	1 - 1

		SAME		1				URE:	200	7					
1. Trypticase Soy Broth		IDE	ENT I I	F I CA	T10N	:									
Date Media was made: 24 Hour Incubation: SAMPLE									DAYS	(1-1	4)				
(where supply is available) 10ml # #2 5ml #2 #2	1	2	3	4	5	6	7	8 1	9			12	13	14	
#1 #2	-	-	_	Seg.	863×	1996	-	-	-	-	3		17	-	
 Thioglycollate Broth Date Media was made: 24 Hour Incubation: 							<u> </u>								+-
SAMPLE (where supply is available) IOml #1 #1 5ml	1	2	3	4	5	6	7	8	DAYS 9		4) 	12	13	14	
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SAMPLE: 2F TEMPERATURE: 200 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 available) 10ml #1 #2 5m1 #1 #2 1m1

II. Thioglycollate Broth
Date Media was made:
24 Hour Incubation:

#1 #2

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(where sup	ply	is
availabl	le)	I Om
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		#1
		5m l
		#1
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		1m I
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								PAYS	(1-1	4)			
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SAMPLE: 3F TEMPERATURE: 200 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is 10 - 11 , 12 , 13 , 14 available) 10ml #1 #2 5m I #1 #2 1m1 #1 #2 Thioglycollate Broth 11. Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 7 9 10 11 , 12 , 13 , 14 6 available) 10ml #1 #1 5m1 #1 #2 1ml #1

1.

#2

TEMPERATURE: 200 SAMPLE: 4F IDENTIFICATION:____ I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 available) 10ml #1 #2 5m1 #1 #2 Iml # I #2 Thioglycollate Broth Date Media was made: ---24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 6 8 10 11 , 12 , 13 , 14 available) I Om I #1 #1 5m1 #1 #2 1mi

> #1 #2

TEMPERATURE: 200 SAMPLE: 5 F IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is . 12 10 11 available) 10ml #1 #2 5m1 #1 #2 1ml #1 #2 11. Thioglycollate Broth Date Media was made: 24 Hour Incubation: DAYS (1-14) SAMPLE (where supply is , 13 ; 14 - 11 , 12 10 available) 10m1 #1 #1 5m1 #1 #2 1ml

> #1 #2

SAMPLE: 6F TEMPERATURE: 700 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: **** 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 available) I Om I #1 #2 5ml #1 #2 Iml #1 #2 Thioglycollate Broth 11. Date Media was made: 🕶 24 Hour Incubation: SAMPLE DAYS (1-14) 7 8 - 11 , 12 , 13 , 14 (where supply is 6 10 available) I Om I #1 #1 5m1 #1 #2

1m1 #1 #2

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SAMPLE: TP TEMPERATURE: 200 IDENTIFICATION: I. Trypticase Soy Broth Date Media was made: 🐃 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is 10 11 , 12 , 13 , 14 available) 10ml #1 #2 5m l #1 #2 lml #1 #2 Thioglycollate Broth 11. Date Media was made: 🚤 24 Hour Incubation: SAMPLE DAYS (1-14) (where supply is б 8 10 11 , 12 , 13 , 14 available) 10ml #1 #1 5m1 #1 #2 1ml #1 #2

Non-read A

SAMPLE: 85 TEMPERATURE: 200

IDENTIFICATI	ON:	

I. Trypticase Soy Broth Date Media was made: *** 24 Hour Incubation:

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(where supply	is	.1	2	3	4	5	,6	.7	.8	9	10	11	. 12	13	14	r
available)	I Om I					ĺ	[
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	#2	-	-		-32	(EXT)	54723CBE 1	•	-	-	-	_	=	<u> </u>	-	

II. Thioglycollate Broth
Date Media was made: ==
24 Hour Incubation:

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(where sup	ply	is
availab	le)	10m1
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		5m l
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		1ml
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SAMPLE: 9F TEMPERATURE: 70°

IDENTIFICATION:

I. Trypticase Soy Broth Date Media was made: 24 Hour Incubation:

SAMPLE)AYS	(1-14	4)			
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available) 10m	il [İ			į		i				-
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II. Thioglycollate Broth Date Media was made: *** 24 Hour Incubation:

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availab	le)	10m1
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7 7
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SAMPLE: 16 F TEMPERATURE: 20°

I. Trypticase Soy Broth
Date Media was made:

SAMPLE								(DAYS	(1-1	4)				
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available) Oml			ĺ	ĺ		1	Ì	į	[i	ì				
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#2	-	-	-		-	-	-	-	1-	_	=	=	¦≍		

II. Thioglycollate Broth
Date Media was made: ~~
24 Hour Incubation:

SAMPLE (where supply is	1	2	3	4	5	6	7	8	DAYS 9	(1-1 10	4) 	12	13	14 r
available) 10ml			Ì					İ		İ	İ			
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<i>3™</i> #1		}						ļ		1				
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Reseeds
Types: Wecatul
Sample: 2-F
Temperature: 200

Days

I. Trypticase Soy Broth:
Date Media was made:

24 Hour Incubation: Sample:

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lml	-						
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II. Thioglycolate Broth
Date Media was made:

24 Hour Incubation:

Sample:			2	3	4	5	6	7
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Re**c**eeds

Types: Negative

Sample: <u>H-F</u>

Temperature: 20°C

I. Trypticase Soy Broth: Date Media was made:

24 Hour Incubation: Sample:

s made: bation:				Days			
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II. Thioglycolate Broth Date Media was made: ---

24 Hour Incubation:

Sample:		1	2	3	4	5	6	7
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Reseeds Types: Nogative

Sample: 7-F
Temperature: 20°C

Trypticase Soy Broth:
Date Media was made:

24 Hour Inc

Media was Hour Incuba					Days			
Sample:		1	2	3	4	5	б	7
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-	lm l							
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Thioglycolate Broth

Date Media was made: 24 Hour Incubation:

Sample:	eation:	1	2	3	. 4	5	6	7
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	lm!							
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Re**ç**eeds

Types: Nogative

Sample: 10 F

Temperature: 20°C

I. Trypticase Soy Broth: Date Media was made: ***

24 Hour Incubation:

Hour Incuba	ation:				Days			
Sample:		11	2	3	4	5	6	7
	5m I							
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II. Thioglycolate Broth Date Media was made: ***

24 Hour Incubation:

Sample:		2	3	4	5	6	7
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lml							
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Raw Data - Positive Reseeds

Positive Reseed Controls

CONTROL: 2C	TEMPERATURE: 37
CEN Count _	3.5 × 105

1. Trypticase Soy Broth: Date Media was made:

24 Hour incubation:

Days (1-14)

Blank Control:

#1 #2

Control Dilutions-Seeded:

10-2

10-4

10-6

10-8

Seeded Dilutions-Glycerine-Iml:

10-5

10-6

10-7

10-8

Seeded Dilution-Glycerine-5 ml:

10-5

10-6

10-7

10-8

Thioglycollate Broth:

Date Media was made: 🐃

24 Hour incubation:

Days (1-14)

Blank Control: #1

#2

Control Dilutions-seeded:

10-2

10-4

10-6

10-8

Seeded Dilutions-Glycerine-Iml:

10-5

10-6

10-7

10-8

Seeded Dilutions-Glycerine-5ml:

10-5 10-

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-	2	3	4	5	6	7	8	9	10	11	12	13 	14
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Reseeds

Types: Pasiture

Sample: 36

Temperature: 37°

Trypticase Soy Broth:
Date Media was made:

24 Hour II

Media was Hour Incub		**************************************			Days			
Sample:		11	2	3	4	5	6	7
	5m l							
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Thioglycolate Broth

Date Media was made: > 24 Hour Incubation:

Sample:	-	2	3	4	5	6	7
5m!							
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+2		_))
1ml							
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+2	~	_	-	_	_	_	_

Regeeds
Types: Positive
Sample: 4 b

Temperature: 37

I. Trypticase Soy Broth: Date Media was made: —— 24 Hour Incubation:

Sample:

II. Thioglycolate Broth Date Media was made: 32 24 Hour Incubation:

imi

+1

+2

Sample:		2	3	4	5	6	7
5m l							
+1	_	_	_	-	-	_	-
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lml							
+1		_			_	_	_
+2	_	_	_	_	_	_	_

Reseeds
Types: Positive
Sample: 76
Temperature: 37

I. Trypticase Soy Broth: Date Media was made: 24 Hour Incubation:

Hour Incuba	tion:				Days			
Sample:		1	2	3	4	5	6	7
<u>5</u>	m l							
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II. Thioglycolate Broth Date Media was made: 24 Hour Incubation:

Hour Incubatio	n:			,-			
Sample:	1	2	3	4	5	6	7
5m1							
+1	-	_	_	_	_	_	_
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- Iml							
+1	_	_	_	_	_		_
+2	_	_	_		_	_	_

Reseeds
Types: Positue Sample:

Temperature: 37 °

I. Trypticase Soy Broth: Date Media was made: _____.

24 Hour Incubation:

^			
11	2	10	c

Sample:		1	2	3	4	5	6	7
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	Iml							
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Thioglycolate Broth Date Media was made: ***

24 Hour Incubation:

Sample:	1	2	3	4	5	6	7
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Regeeds
Types: Porture

Sample: 3c

Temperature: 37°

I. Trypticase Soy Broth: Date Media was made: *** 24 Hour Incubation:

Days

| Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | D

+2

Sample:		2	3	4	5	6	7
5m1						<u> </u>	
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lml							
+1	-	_				_	-
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Regeeds
Types: Positive

Sample: 4-C

Temperature: 37°C

I. Trypticase Soy Broth:
Date Media was made: —

II. Thioglycolate Broth Date Media was made: ~ 24 Hour Incubation:

Sample:	l	2	3	4	5	6	7
5m1							
+1	-	_			_	-	_
+2		_				· ·	ſ
Iml							
+1		_					-
+2		_	_		_		_

Reseeds
Types: Posticl
Sample: Sc
Temperature: 37

I. Trypticase Soy Broth: Date Media was made:

II. Thioglycolate Broth
Date Media was made:

Days 24 Hour Incubation: Sample: 3 5 <u>5m!</u> +1 +2 Iml + + + + \vdash + +1 +2 this was confirmed

Types: Pasting Sample: Temperature: 37° Trypticase Soy Broth: Date Media was made: Days 24 Hour Incubation: Sample: 2 б 5m l +1 +2 Iml +1 +2 Thioglycolate Broth Date Media was made: Days 24 Hour Incubation: 2 Sample: 3 6 7 <u>5m1</u>

+1

+2

Iml

+1

+2

Reseeds

Reseeds
Types: Positul

Sample: 10c

Temperature: 37°

I. Trypticase Soy Broth: Date Media was made: 24 Hour Incubation:

Days

Sample:	11	2	3	4	5	6	7
5m l				<u> </u>	<u> </u>		
· +1	_	_	_	_	_	_	_
+2	-	-	_	_	_	_	-
lml							
+1	_	~	_	_	_	-	_
	-	_	_	_	_	_	_

II. Thioglycolate Broth Date Media was made: 24 Hour Incubation:

	2	3	4	5	6	7
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_	_	_			_	

Regeeds
Types: Positive

Sample: 1E
Temperature: 20 C

Trypticase Soy Broth: Date Media was made: -

24 Hour Incubation Sample:

s made: bation:				Days			
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+2	منى	mate .	, market		******	424	عويت

Thioglycolate Broth 11. Date Media was made: —

24 Hour Incubation:

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	tmt							
	+1	-	_	-	_	_	_	-
	+2			-	-	_		1

Receeds
Types: Positive

Sample: 10 E

Temperature: 37°

Trypticase Soy Broth:
Date Media was made: 24 Hour Incubation:

Days

Sample: 3 5m1 +1 +2 lmi +1 +2

11.

Thioglycolate Broth Date Media was made:

Days

24 Hour Incubation:

Sample:	<u> </u>	2_	3	4	5	6	7
<u>5m1</u>							
+1	_	_	_	_	_	_	1
+2	_	_	_	-	-		-
lml							
+1	_	_	_		_		_
+2			-	-	_		

Re**G**êeds Types: Negative Sample: 36 Temperature: 370

Trypticase Soy Broth:
Date Media was made: ***

24 Hour Incubation:

5m l

+1

+2

lml

+1

+2

Sample:

•		_	_		_	_	
 -	1	22	_ 3	4	5	6	7
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		<u> </u>	:	'			ł

Days

11. Thioglycolate Broth Date Media was made: ***

24 Hour Incut

e media wasi Hour Incubat		44346	Days					
Sample:		1	2	3	4	5	6	7
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+:	+2 Iml			مينته	Billio	******	Magar ^a	20.00
<u>Im</u>								
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+:	+2					gr.es	entropy and a	napari .

Sample: 10 b Temperature: 330 Trypticase Soy Broth: Date Media was made: Days 24 Hour Incubation: Sample: 2 7 3 5 6 5m1 +1 +2 lml +1 +2 Thioglycolate Broth Date Media was made: *** Days 24 Hour Incubation: 3 Sample: 6 5m1 +1 +2

Iml

+1

+2

Re**c**eeds

Types:

Regeeds
Types: Negotive
Sample: 3C

Temperature: 370

I. Trypticase Soy Broth: Date Media was made: — 24 Hour Incubation:

Days 2 3 4

Sample:		1	2	3	4	5	6	7
	5m l							
	+1		-	_	-	_		
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	lml							
	+1	-		_		-	-	-
	+2						_	

II. Thioglycolate Broth Date Media was made: — 24 Hour Incubation:

Days

Re**c**eeds Types: Sample: _ Temperature: 31°

Trypticase Soy Broth: Date Media was made: ***

24 Hour Inci

Media was Hour Incub		Control of the Contro			Days			
Sample:		11	2	3	4	5	6	7
	5m l							
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	lml							
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	+2		CHARLE.			art a der	Parso	

Thioglycolate Broth Date Media was made: 🐃

24 Hour Incubation:

+2

Sample:	1	2	3	4	5	6	7
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+2	442.204	عببت	476	erri		wec.	
lml							

	CONTROL: <	5 S	•	TE	MPE	RAT	URE	: 6	SO C	>					
	CEII COUNT	·	ؽ	ی ج	-X,	105	-								
															
•	Trypticase Soy Broth: Date Media was made: 24 Hour incubation: Days (1-14)	1	, 2					. 7	, 8	- ; 9	, 10	, 11	112	ı13	;14
Α.	Blank Control: #1 #2	=	-	-	-	~	_	=	-	=	-	=	-		-
В.	Control Dilutions-Seeded: $10-\frac{2}{10-4}$ $10-\frac{6}{10-8}$		1 1 1 1			++ 5-	++=	+ + -		+ + + -	+ + +	+++	7++1	4	+ + + -
с.	Seeded Dilutions-Glycerine-Iml: 10- ⁵ 10- ⁶ 10- ⁷					(1 1	^	++	++	+ + -	+++	+++	+ + +	4	+++-
D.	Seeded Dilution-Glycerine-5 ml: 10-5 10-6 10-7 10-8	, , , ,))		-			- 11 1					The state of the s		
١.	Thioglycollate Broth: Date Media was made: — 24 Hour incubation:	<u> </u>									<u> </u>	.		<u> </u>	L
Α.	Days (1-14) Blank Control: #1 #2		2 - -	.3 - -	4	5	6	7=	8	9	10	-	2	13	4 - -
В.	Control Dilutions-seeded: 10-2 10-4 10-6 10-8		*	+	+ +	++	++	++	+ +	++++	++++	+ + +	+ + +	++++	++++
С.	Seeded Dilutions-Glycerine-Iml: 10-5 10-6 10-7 10-8	-	-			+	+1 -(1 1 1 T	+ 11	+++-1	+ + +	+ + -	+++	+++-	+++-
D.	Seeded Dilutions-Glycerine-5ml: 10-5 10-6 10-7 10-8	-	-				1111			1111		-	1 1	ent enter	

Receds
Types: Positive
Sample: 36
Temperature: 20

I. Trypticase Soy Broth: Date Media was made:

24 Hour Incubation: Sample:

II. Thioglycolate Broth Date Media was made: ***

24 Hour incubation:

Sample:	1	2	3	4	5	6	7
<u>5m l</u>							
+1	-	_	_	-	_	~	_
+2			-	1		_	_
lml							
+1		_			_)	_
+2			-				_

Receeds Types: Positive Sample: 4b Temperature: 20°

Trypticase Soy Broth:
Date Media was made:
24 Hour Incubation:

Sample:

s made: bation:				Days			
	1	2	3	4	5	6	7
5m l							
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Iml							
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Thioglycolate Broth 11. Date Media was made:

24 Hour Incub

e Media w Hour Incu		• 6001419			Days				
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	lml								
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	. 6		_			_	(

Reseeds
Types: Positive

Sample: 7b

Temperature: H°

I. Trypticase Soy Broth: Date Media was made:

24 Hour Incubation: Sample: Days

II. Thioglycolate Broth Date Media was made: —

24 Hour Incubation:

Sample:		2	3	4	5	6	7
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lm!							
+1	_	_			_)
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Reseeds
Types: Positive
Sample: 106
Temperature: 20

I. Trypticase Soy Broth:
Date Media was made:

II. Thioglycolate Broth

Hour incubation	on:			7 -			
Sample:		2	3	4	5	6	7
<u>5m1</u>				·			
+1	_	_	_	(_	-	(
+2	_	_	_	1	_	_	_
1m,1							
+1	_	_		_		_	_
+2	_	_	_	_			

Regeeds
Types: Portion

Sample: 3c

Temperature: 20°

I. Trypticase Soy Broth: Date Media was made: 24 Hour Incubation:

Days

Sample: 1 2 3 4 5 6 7

5m1							
+1		_	_		-	1	_
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lml							
+1	_	_	_	_	_	<u>-</u>	
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II. Thioglycolate Broth

Days

Regeeds
Types: Positive

Sample: 4-C

Temperature: 20°C

I. Trypticase Soy Broth:
Date Media was made: —

II. Thioglycolate Broth Date Media was made: —

24 Hour Incubation:

1	2	3	4	5	6	7
		_		-	-	_
	-		-	_	-	_
			_			
_	_	-	-	_	-	_

Receds Types: 8c Sample: ___ Temperature: 20° Trypticase Soy Broth: Date Media was made: **** Days 24 Hour Incubation: Sample: 2 3 5 1 6 <u>5m1</u> +1 +2 Iml +1 +2 н. Thioglycolate Broth Date Media was made: Days 24 Hour Incubation: Sample: 5m1 +1 +2 lml

+1

+2

Positive Types: Sample: 90 Temperature: 200(Trypticase Soy Broth: Date Media was made: Days 24 Hour Incubation: 2 Sample: 3 6 5m l +1 +2 1ml +1 +2 Thioglycolate Broth Date Media was made: 🕶 Days 24 Hour Incubation: Sample: 3 5m l

+1

+2

1ml

+1

+2

Regeeds

II. Thioglycolate Broth

Date Media was made: 🕶

Trypticase Soy Broth:
Date Media was made:

5m1

+1

+2

Iml

+1

+2

24 Hour Incubation: Sample:

24 Hour Incubation: Sample:

	11	2	3	4	5	6	7
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lmi							
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+2		_	_	_	_	_	_

Regeeds
Types: Positive

Sample: 1 E

Temperature: 37°C

I. Trypticase Soy Broth: Date Media was made: -24 Hour Incubation:

| Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days | Days |

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II. Thioglycolate Broth

Date Media was made: -

24 Hour Incubation:

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Receds
Types: Positive

Sample: 10E

Temperature: 20°

I. Trypticase Soy Broth: Date Media was made: **** 24 Hour Incubation:

Days

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II. Thioglycolate Broth
Date Media was made:

24 Hour Incubation:

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Reseeds
Types: Negative

Sample: 36

Temperature: 200

I. Trypticase Soy Broth: Date Media was made:

24 Hour Incubation:

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Da	V٩	5

Sample:		1	2	3	4	5	6	7
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II. Thioglycolate Broth Date Media was made:

24 Hour Incubation:

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Reseeds
Types: Negative

Sample: 105

Temperature: 200.

I. Trypticase Soy Broth: Date Media was made: ~

24 Hour Incubation:

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Sample:		11	2	3	4	5	6	7
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II. Thioglycolate Broth Date Media was made: **

24 Hour Incubation:

Days

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Resceeds
Types: Wesative

Sample: 90

Temperature: 20

I. Trypticase Soy Broth: Date Media was made:

24 Hour incubation:

Days

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II. Thioglycolate Broth

Date Media was made: ___

24 Hour Incubation:

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Sample:			2	3	4	5	6	7
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	+2	_		_	-	_	-	^ _

Raw Data Phase II: Evaluation of Bacteriostatic, Bactericidal Properties of Glycerine

Contents of Appendix:

1. Part I

The determination of the inhibitory characteristics of glycerine against <u>Pseudomonas aeruginosa</u> A.T.C.C. #10145, <u>Escherichia coli</u> A.T.C.C. #11775, <u>Salmonella typhimurium</u> A.T.C.C. #13311 and <u>Staphylococcus aureus</u> A.T.C.C. #12600.

2. Part II

The determination of whether the inhibition demonstrated in Part I is bacteriostatic or bactericidal, for the above organisms.

Phase II: Bacteriostatic-Bactericidal Properties
Part I
Escherichia coli A.T.C.C. #11775

Date: 6-8-71

Inhibition: 14 days
Cell count: 8.2 x 10 8

Percent/ .				No.	Pos i	tive	tub:	es c	ut o	f 16				
Percent/ Glycerine/ day	l	2	3	4	5	6	7	8	9	10	11	12	13	14
6.7%	16													16
13.4%	16							_						16
20.3%	سی			7					10					10
24.1%	0													0
28.6%	0													0
31.3%	0													0

Reseeds--48 hr.

Date: 6 - 10-7/

Percent Total Pos. Glycerine Tubes Tubes

6.7%	_	
13.4%	_	_
20.3%	11	11
24.1%	16	16
28.6%	16	16
31.3%	16	16

Phase II: Bacteriostatic-Bactericidal Properties

Part I

Pseudomonas aeruginosa A.T.C.C. #10145

Date: 6-10-71

Inhibition: 14 days
Cell count: 5.2 x 105

Percent / .				No.	Pos i	tive	tub	es o	ut o	f 16				
Percent / da Glycerine/	ıy I	2	3	4	5	6	7	8	9	10	. 11	12	13	14
6.7%	16						_							16
13.4%	13		14			الح ا		16					_	16
20.3%	/													1
24.1%	0													0
28.6%	0													0
31.3%	0													0

Reseeds--48 hr.

Date: 6-10-71

Percent Glycerine	Total Tubes	Pos. Tubes
6.7%	1.07.03.0	
13.4%	3	13
20.3%	75	15
24.1%	16	16
28.6%	16	16
31.3%	15	16

Phase II: Bacteriostatic-Bactericidal Properties
Part I

Date: 6 - 8 - 71

Inhibition: 14 days
Cell count: 2.3 x 108

Salmonella typhimurium A.T.C.C. #13311

Percent /day	,		1	10.	Pos	itive	e tub	oes o	out o	of I	б			
Percent day	ı	2	3	4	5	6	7	8	9	10	П	12	13	14
6.7%	16													16
13.4%	16													16
20.3%	0					/			2					2
24.1%	0													0
28.6%	o													0
31.3%	0													0

Reseeds--48 hr.

Date: 6-10-71

Percent Total Pos. Glycerine Tubes Tubes

L		
6.7%	-	
13.4%		
20.3%	16	16
24.1%	16	16
28.6%	16	16
31.3%	16	16

Phase II: Bacteriostatic-Bactericidal Properties
Part I

Staphylococcus aureus A.T.C.C. #12600

Date: 6-8-21

Inhibition: 14 days
Cell count: 76×107

Percent / .				No.	Posi	†ive	tut t	oes o	out o	of I	6			
Percent / day Glycerine /	. 1	2	3	4	5	6	7	8	9	10	[]	12	13	14
6.7%	16													16
13.4%	16													16
20.3%	15	16												16
24.1%	15		16											16
28.6%	0	4	10					12		ائر				13
31.3%	0				_									0

Reseeds--48 hr.

Date: 6-10-7/

Percent	Total	Pos.
Glycerine	Tubes	Tubes

6.7%	_	
13.4%	_	
20.3%	-	1
24.1%	1	/
28.6%	12	12
31.3%	16	16

Phase II: Bacteriostatic-Bactericidal Properties

ker was

Part II

Escherichia coli A.T.C.C. #11775

Original--- 7.4.71 48 hr. reseed--- 7.6.71 7 day reseed--- 7.11.71 Cell count--- 8 x 10 8

reseed	Total tubes	9/	16	10	7	/					
7 day reseed	Pos. †ubes	0	Q	0	Ò	0					
reseed	Total								<i>"</i>	€,	
72 hr.	Pos. †ubes								0	٥	
reseed	Total tubes	9/	9/	9/	16	9/	16	16	16	9/	9/
48 hr.	Pos. †ubes	9/	15	0/	7	/	8	9	**	*5	9
innoculum	Tota! tubes	9/	9/	16	16	9/	9/	16	9/	9/	16
Initial	Pos. †ubes	0	٥	0	0	٥	0	0	0	0	0
Percent glycerine		37.8%	40.5%	43.9%	48.1%	49.5%	58.6%	67.8%	78.5%	88.8%	98.9%

^{*} Considered a chance contamination.

Phase II: Bacteriostatic-Bactericidal Properties

Part II

Pseudomonas aeruginosa A.T.C.C. #10145

Original--- 6-29.7/ 48 hr. reseed--- 7-1-7/ 7 day reseed--- 7-6-7/ Cell count--- % 0 & 108

Percent glycerine	Initial	innoculum		48 hr. reseed	7 day reseed	reseed
	Pos. †ubes	Tota! †ubes	Pos. †ubes	Total †ubes	Pos. †ubes	Total tubes
23.6%	0	9/	2/	16	7	9/
28.7%	0	16	76	16	0	16
33.6%	0	9/	12	16	0	12
37.8%	0	9/	1	16	0	Y
40.5%	0	9/	0	16		

Phase II: Bacteriostatic-Bactericidal Properties

| Part | | Salmonella typhimurium A.T.C.C. #13311

Original--- 7 - 13 - 7/ 48 hr. reseed--- 7 - 15 - 7/ 7 day reseed--- 7 - 20 - 7/ Cell count--- 9 x 10 8

-										
7 day reseed	Total	tubes	15	9/	9/	16	<i>L</i> 3	3		
7 day	Pos.	tubes	151	Ę)	O	0	0	0		
reseed	Totai	tubes	15,	7/	16	9/	16	16	16	16
48 hr.	Pos.	tubes	151	16	7/	9/	89	20	0	٥
Initial innoculum	Total	tubes	16	16	16	16	16	16	16	16
Initial	Pos.	tubes	1	0	0	٥	0	0	0	0
Percent glycerine			23.6%	28.7%	33.6%	37.8%	40.5%	43.9%	48.1%	49.5%

Phase II: Bacteriostatic-Bactericidal Properties Part 11

Staphylococcus aureus A.T.C.C. #12600

48 hr. reseed--- 7.1-7/ 7 day reseed--- 7-6-7/ Cell count--- 8: 41.08 Original--- \$ -29-71

Percent glycerine	Initial	Initial innoculum	48 hr. reseed	reseed	7 day reseed	reseed
	Pos. †ubes	Total	Pos. †ubes	Pos. Total tubes tubes	Pos. †ubes	Total tubes
67.8%	(**	"	``	<	7/
78.5%	0)	e e	د و	0 0	ہ ہ
88.8%	0	16	1/6)/	0	/6
%6.86	0	16	٤/	16	0	9/