POPULATION ASSAY: PROSPORE AMPOULE

LOT#:	_ORGANISM: (G. stearothermoph	ilus Other
Fill Volume (circle one): 1ml 4	ml 1.9 ml SPS	ml	TSA Lot #
LABELED POP/POPULATION I	LEVEL:		
 PROCEDURE: 1.0 Vortex the ampoule for 1 minu Position being careful to wash ampoule. This step is necessar aliquot to a sterile, screw-capp 2.0 Heat shock in a water bath (10 <i>stearothermophilus</i> and other to 	ite in an Upside D out any spores that y to achieve an acc ed, 10 ml test tube minutes at 80°-85 thermophiles). Imr	own Position, and at may be adhering curate population containing 9 ml o °C for mesophiles nediately cool in a	then for 1 minute in Normal Vertical g to the glass in the upper tip of the count. Then aseptically transfer a 1ml of sterile, processed water. a and 15 minutes at 95° - 100°C for G. a water bath of 0° - 4°C.
Start Time/Temperature:		_/ºC	End Time:
Initial and	l Date:	/	
 3.0 Vortex the tube for 15-20 seco 4.0 Perform serial dilutions by pip tube containing 9.0 ml of steril 5.0 From the next-to-the-last diluti dilution. 6.0 Within 20 minutes, add approxidistribute spores evenly in again 	nds. etting out 1.0 ml o le, processed water ion, pipette out 1.0 kimately 20 ml TS. r and allow to soli	of the aliquot into a r. Repeat from ste o ml into each of th A, pre-sterilized a dify.	another sterile, screw-capped 10 ml test p 3 until desired dilution factor is reached hree Petri plates. Repeat for the final nd cooled to $47^{\circ} \pm 2^{\circ}$ C. Swirl to
TSA Temperature:	°C	Initial and Date:	/
7.0 Invert and incubate the plates (thermophiles).	(30°-35°C for meso	ophiles, 55°-60°C	for G. stearothermophilus and other
Incubation Start Time/Initi	al & Date:	/	Incubator #:
 8.0 Examine all plates at 24 (<u>+</u>1) h (CFU's) per plate. Record the a 9.0 Calculate the average number page. 	ours. Record on the average on the foll of CFUs/ampoule	ne back the numbe owing page. from the above da	er of colony forming units ata using the formula on the following
Performed By:]	Date:

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Total @ 24 hrs / number of plates counted x DF x AVF = CFU/ampoule DF= Dilution factor (absolute value of the reciprocal of the dilution) AV= Average number of colonies per ampoule AFV=Ampoule fill volume

Incubation End Ti	me/Initial & Date:	·/		
# dilutions		CFU COUNTS AT 2	24 HOURS	
24hrs Plates 1	2	3	_ Total @ 24hours:	
Total @ 24 hrs	/ 3 x	(DF) x	(AFV) =	(AV)CFU/ampoule
# dilutions		CFU COUNTS AT 2	24 HOURS	
24hrs Plates 1	2	3	Total @ 24 hours:	
Total @ 24 hrs	/ 3 x	(DF) x	(AFV)=	(AV)CFU/ampoule
# of Dilutions = Dil 1 = 10 2 = 100 3 = 1000 4 = 10000 5 = 100000 6 = 1000000	lution Factor Sum o	of the AV of both dilu	tion / 2 =CFU/ ml _ / 2 = <u>x10</u> CFU/ampo	vule
Read By:			Date:	