POPULATION ASSAY: PROAMP

LOT#:	ORGANISM:			
Fill Volume: ml	POPULATION LEVEL:			
Performed By:	Date:			
 PROCEDURE: 1.0 Aseptically wipe down 5 ProAn Using a sterile pestle or other su of the pooled solution and place processed water. 2.0 Heat shock in a water bath (10 m thermophiles). Immediately coordinately coord	ups with 70% Isopropyl alcohol and place in sterile 50mL conical tube. itable device, aseptically crush the ampoules. Aseptically withdraw 1.0mL into a sterile screw-capped 10mL test tube containing 9.0mL of sterile, ninutes at 80°-85°C for mesophiles and 15 minutes at 95° - 100°C for l in a water bath of 0° - 4°C.			
Start Time/Temperature:	/°C End Time:			
 3.0 Vortex the tube for 15-20 second 4.0 Perform serial dilutions by pipett tube containing 9.0 mL of sterile reached. 5.0 At the dilution expected to yield the final dilutions. 6.0 Within 20 minutes, add approxim distribute spores evenly in agar approximation. 	s. ing out 1.0 mL of the aliquot into another sterile, screw-capped 10 mL test, processed water. Repeat from step 3 until desired dilution factor is 10-300 CFU, pipette out 1.0mL into each of three Petri plates. Repeat for nately 20 mL TSA, pre-sterilized and cooled to $47^{\circ} \pm 2^{\circ}$ C. Swirl to nd allow to solidify.			
TSA Lot #	TSA Temperature:°C			
7.0 Invert and incubate the plates (30)°-35°C for mesophiles, 55°-60°C for thermophiles).			
Incubation Start Time:	Incubator #:			
 8.0 Examine all plates at 24 (±1) hou (CFU's) per plate. Record the average number of page. 	rrs. Record on the back the number of colony forming units erage on the following page. CFUs/ampoule from the above data 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:					
# dilutions		<u>CFU COUNTS AT 2</u>	24 HOURS			
Plates 1	2	3	_ Total @ 24hours: _			
Total @ 24 hrs	/ 3 x	(DF) x	(AFV) =	(AV)CFU/ampoule		
# dilutions		CFU COUNTS AT 2	24 HOURS			
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	ution Factor	of the AV of both dilut	ions / 2 =CFU/ ml			
			_ / 2 =			
			<u>x10</u> — CFU/am	poule		
Read By:		Date:				
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Omaha, NE