POPULATION ASSAY: SPORE STRIPS/DISC/THREAD/SUTURE

Lot #				POP LEVEL						
CARR	IER (circle o	one):	Spore Strip	Disc	Thread	Sutu	re	Other		
ORGA	ANISM(S):	B. at	rophaeus	G. stea	rothermop	hilus	Other			
PROC	EDURE:									
1.0 2.0	Aseptically transfer 10 spore strips/discs/threads/sutures into sterile 250 ml blender cup containing 100 ml chilled processed water Blend 3-5 minutes to a homogeneous pulp of component fibers. [For threads and sutures stop the									
	them. If the blending.]									
3.0	Aseptically transfer a 10 ml aliquot from the blender cup into a sterile, screw-capped 10 ml test tube. Label each tube with lot #, temperature and length of exposure.									
4.0	Heat shock tubes in a water bath (10 minutes at 80° - 85°C for <i>B. atrophaeus</i> and other mesophiles, 15 minutes at 95° - 100°C for <i>G. stearothermophilus</i> .) Immediately cool tubes in a water bath of 0° - 4°C.									
	Start Time	/Tem	perature:		/		°C	End Time:		
		I	nitial and D	ate:		/	'			
5.0 6.0	Vortex the tubes for 15-20 seconds. Perform serial dilutions by pipetting out 1.0 ml of the aliquot into another sterile, screw-capped 10 ml test tube containing 9.0 ml of sterile, processed water. Repeat from step 5 until desired dilution factor is reached.									
7.0	At the dilution factors expected to yield 10-300 CFU, pipette out 1.0 ml into each of three petri plates. Repeat for final dilutions.									
8.0	Within 20 minutes, add to each plate approximately 20 ml of TSA, pre-sterilized and cooled to 47° ± 2°C. Swirl to distribute spores evenly in agar and allow to solidify. Also pour 1 Media Negative Contro plate.									
	Т	SA T	emperature	.	°C	TSA	A Lot #			
			Initial ar	ıd Date:						
9.0	Invert and incubate the plates (30° - 35°C for <i>B. atrophaeus</i> and other mesophiles, 55° - 60°C for G. <i>stearothermophilus</i>). Incubate Media Negative control at same temperature as assay.									
		Incu	bation Start	Time:_			_Incub	ator #		
			Initial an	d Date:						

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Examine all plates at 24 (\pm 1) hours and record the number of colony forming units (CFU's) per plate. 10.0 Calculate the average number of CFU's per carrier by using the formulas below.

> Total @ 24 hrs / number of plates counted x DF = CFU/spore carrier DF= Dilution factor (absolute value of the reciprocal of the dilution) AV= Average number of colonies per spore carrier

Incubation End T	Cime/Initial & Date://							
# dilutions	CFU COUNTS AT 24 HOURS							
24hrs Plates 1	23 Total @ 24hours	:						
	/ 3 x(DF) =(4 decimals)	(AV)CFU/Spore carrier						
# dilutions	CFU COUNTS AT 24 HOURS							
24hrs Plates 1	23 Total @ 24hours	:						
Total @ 24 hrs	/ 3 x(DF) =(4 decimals)	(AV)CFU/Spore carrier						
# of Dilutions = Di 1 = 10 2 = 100 3 = 1000 4 = 10000 5 = 100000 6 = 1000000	TFTC=Too few to count <10CFUs TNTC=Too numerous to count >300CFUs	edia Negative Control:						
	Sum of the AV of both dilution / $2 = CFU/Spore$	carrier						
	/ 2 =							
	<u>x10</u> — C	FU/Spore Carrier (4 decimals)						
Read By:	Date:_	Date:						
Reviewed By:	Date:_							
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