STABILITY POPULATION ASSAY: METAL DISCS/METAL STRIPS/WIRES

LOT#	·	LA	BELED POP					
	IER (circle one): Strip	Disc	Wire	TSA Lot				
	ANISM (circle one): <i>B. atropi</i>		G. stearothermop	hilus				
PROC 1.0 2.	water with 0.1 ml of Tween in refrigerator overnight. Remove 10 ml tube from ref	80 and 1m efrigerator a	nl of 3mm sterile g and vortex for 2 m	nk containing 9.9 ml sterile, processed plass beads. Vortex for 2 minutes. Place inutes. Insert into sonicator (38.5 –				
3.0	40.5 KHz, full wave industrial stack transducer) for 10 minutes. Heat shock tubes in a water bath (10 minutes at 80° - 85°C for <i>B. atrophaeus</i> , 15 minutes at 95° 100°C for <i>G. stearothermophilus</i> .) Immediately cool tubes in a water bath of 0° - 4°C.							
Start	Time/Temperature:			ºC End Time:				
	Initial and Dat	e:						
4.05.06.07.0	Vortex the tube for 1 minute. IMPORTANT: Make sure that metal carrier does not get stuck in the tube during vortexing. The carrier must flow freely with the glass bead. Prior to performing serial dilutions, visually check to make sure that the spore deposit has been completely removed from the carrier. Perform serial dilutions by pipetting out 1.0 ml of the aliquot into another sterile, screwcapped 10 ml test tube containing 9.0 ml of sterile, processed water. Repeat from step 3 until desired dilution factor is reached. From the next-to-the-last dilution, pipette out 1.0 ml into each of three petri plates. Repeat for final dilution. Within 20 minutes, add to each plate approximately 20 ml of TSA, pre-sterilized and cooled to							
	47° ± 2°C. Swirl to distribut	•		· ·				
TSA T	emperature:º	C Init	ial and Date:	/				
8.0	Invert and incubate the planstearothermophilus).	tes (30º - 3	5°C for <i>B. atropha</i>	aeus; 55º - 60ºC for G.				
Incub	ation Start Time/Initial & D)ate:		Incubator #:				
9.0	Examine all plates at 24 (± 1) hours. Record on the back the number of colony forming units (CFU's) per plate. Record the average on the following page. Calculate the average number of CFU's per carrier from the above data by using the formulas on the following page:							
Performed By:			Dat	e:				

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Total @ 48 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

# dilutions 24hrs Plates 1 2 3 Total @ 24hours: Total @ 24 hrs / 3 x(DF) =(AV)CFU/Spore carrier CFU COUNTS AT 24 HOURS	Incubation End Time/Initial & Date://							
Total @ 24 hrs / 3 x(DF) =(AV)CFU/Spore carrier	# dilutions		COUNTS AT 24 HO	DURS .				
	24hrs Plates 1	2	3	Total @ 24hours:				
CFU COUNTS AT 24 HOURS	Total @ 24 hrs	/ 3 x	(DF) =	(AV)CFU/Spore carrier				
# dilutions	# dilutions		COUNTS AT 24 HO	<u>DURS</u>				
24hrs Plates 1 3 Total @ 48hours:	24hrs Plates 1	2	3	_ Total @ 48hours:				
Total @ 24 hrs / 3 x(DF) =(AV)CFU/Spore carrier	Total @ 24 hrs	/ 3 x	(DF) =	(AV)CFU/Spore carrier				
# of Dilutions = Dilution Factor 1 = 10 2 = 100 3 = 1000 4 = 10000 5 = 100000 6 = 1000000 Sum of the AV of both dilution / 2 = CFU/ Spore carrier / 2 = x 10^ CFU/Spore Carrier	1 = 10 2 = 100 3 = 1000 4 = 10000 5 = 100000	Sum of the AV of	/	2 =				
Read By:Date:	Read By:			Date:				