

MICROBIOLOGY DEPARTMENT

STANDARD OPERATING PROCEDURE

Title: Microbial Culture Suspension Preparation, Cell Enumeration, Use, Storage and Destruction

		Department:	Microbiolog	
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- 1. **Purpose:**The purpose of this SOP is to describe the procedure for the preparation of culture suspension and enumeration of cells.
- 2. **Scope:** This SOP is applicable to Bacterial and Fungal cultures used for Growth promotion test.

3. References, Attachments & Annexures:

References:

3.1

- 3.1.1 BP
- 3.1.2 USP
- 3.1.3 SOP No.: Procedure for procurement, Transfer,Preservation and Disposal of Microbiological Culture.

3.2 Attachments:

- 3.2.1 Attachment–1:Flow chart for the preparation of stock culture suspensions and cell enumeration
- 3.2.2 Attachment–2:Template for the preparation of microbial culture suspensions and cell enumeration
- 3.2.3 Attachment–3: Culture suspension validation template
- 3.3 Annexures: None

4. Responsibilities:

4.1 Microbiologist:

- 4.1.1 To perform the activity as per SOP
- 4.1.2 To maintain all the records as per SOP

4.2 **QC Head or designee:**

- 4.2.1 To check the SOP.
- 4.2.2 To give training to all concerned persons before implementation of SOP

4.3 **Quality Assurance:**

4.3.1 To check the SOP.



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4.3.2 To ensure the implementation of system as per SOP.

4.4 **Regulatory Affairs, Quality Head , Plant Head:**

4.4.1 To review and approve the SOP.

5. Distribution:

- 5.1 Quality Assurance
- 5.2 Quality Control (Microbiology section)

6. Abbreviations & Definition of Terms :

6.1 **Abbreviations:**

- 6.1.1 ATCC : American type culture collection
- 6.1.2 NCTC : National culture type collection
- 6.1.3 Approx. : Approximately

6.2 **Definition of Terms**

- 6.2.1 SOP: Standard Operating Procedure
- 6.2.2 **Growth promotion test:** Also refered to as fertility or nutritive properties test, which is performed on the media used during different tests like sterility test, microbial limit test, preservative efficacy test etc to demonstrate that it is capable of supporting the growth of micro- organisms.
- 6.2.3 **Colony forming unit (CFU):** Visible outcome of growth of micro-organisms arising from a single or multiple cells.

7. **Procedure:**

7.1 **Preparation of culture suspension, dilutions, enumeration of cells and record**

7.1.1 Follow the procedure described in Microbial Culture Suspension Preparation, and Cell enumeration as per attachment-1.

7.2 **Preparation of stock culture suspension & it's usage:**

- 7.2.1 Use appropriate quantity and dilution for the preparation of stock culture suspension.
- 7.2.2 Use the appropriate quantity of the stock culture suspension as per the requirement of the test.
- 7.2.3 In case of intermittent use of the culture dilutions, remove them from refrigerator at least half an hour before use.
- 7.2.4 Transfer back the culture dilutions in refrigerator within two hours

7.3 **Storage of stock culture suspensions:**

7.3.1 Store the culture suspension in refrigerator up to one month from the date of preparation .

7.4 Validation of the hold time of stock culture suspension:

7.4.1 Validate the hold (storage) time by enumerating the count in culture suspension at 30th day and compare count with initial count as per attachment-3.



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7.4.2 Acceptance criteria: Count of the stored culture suspension should be within 50-200% (factor 2) of the initial count.

7.5 **Destruction of culture suspensions.:**

7.5.1 Follow the procedure defined in Procurement,transfer,preservation and disposal of microbiological culture SOP and maintain the record .



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Attachment -1

Flow chart for the preparation of stock culture suspensions and cell enumeration Flow chart for the preparation of stock culture suspensions and cell enumeration: Transfer microbial culture from working culture tubes to broth or agar media and incubate. Observe the growth and harvest the cells (incase of bacterial cultures.use 24 hr. Broth cultures for preparation of further dilutions) Serial dilutions of microbial cultures. Cell count of last 4-5 dilutions of culture suspension by pour plate method for identification of dilution containing <250 cfu per ml <50 cfu per ml Select previous dilution of above dilution for stock culture preparation Confirmation of the count in stock culture suspension and usage Storage of the stock culture suspension and in refrigerator when not in use.



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Attachment -2

S.No.	Activity						
1.0	Bacterial culture suspension preparation, dilution and cell density enumeration.Bacterial culture suspension preparation.						
1.1							
1.1.1	Organisms to be used	Working culture ID	Organisms used				
	1. Pseudomonas aeruginosa ATCC 9027						
	2. Staphylococcus aureus ATCC 6538						
	3. Escherichia coli ATCC 8739						
	4. Salmonella spp. NCTC 6017						
	5. B. subtilis ATCC 6633						
1.1.2	Identify five containers having(10 ml) Soybean Casein Digest Broth as, PAB : Broth culture for <i>P. aeruginosa</i> . SAB : Broth culture for <i>S. aureus</i> . ECB : Broth culture for <i>E. Coli</i> . SLB : Broth culture for <i>Salmonella spp</i> . BSB : Broth culture for <i>B. subtilis</i> .						
1.1.3	Inoculate a loopful of the respective bacterial strains separately in above broth media containers. Incubate at at (30-35°C) for(18-24) hours.						



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Attachment -2

Template for the preparation of microbial culture suspensions and cell enumeratio

S.No.	Activity							
1.1.4	Observe the containe table.	ers for growth	(Turbidity).	Record t	he details in b	below		
	Culture suspension preparation details	Ps. aeruginosa	S. aureus	E. coli	Salmonella spp.	B. subtilis		
	Identification of media containers							
	Lot no. of SCDM broth used.						-	
	Incubation in date							
	Incubator no.							
	Incubation out date							
	Growth observed /not observed							
	Note- After growth, if culture is not used within 2 hrs, store upto 24 hrs at 2-8°C							
1.2	Preparation of seri	al dilutions o	f the bacteri	ial cultur	es.			
1.2.1	Aseptically transfer1 ml of (NMT 24 hr age) broth culture into 9 ml of n-saline. Vortex test tubes for about 30 seconds to homogenate contents.							
1.2.2	Make serial dilution upto 10^{-8} using sterile n-saline. Homogenate the contents by vortexing the test tubes for about 30 second while preparing each dilution.							



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Attachment -2

Template for the preparation of microbial culture suspensions and cell enumeration

No.	Activity							
Identify	dilutions as follow	ws :						
Dilution		[dentificatio	on of cult	ture dilutions				
	P. aeruginosa	S. aureus	E. coli	Salmonella spp.	B. subtilis			
10-1	PA-1	SA-1	EC-1	SL-1	BS-1			
10-2	PA-2	SA-2	EC-2	SL-2	BS-2			
10-3	PA-3	SA-3	EC-3	SL-3	BS-3			
10-4	PA-4	SA-4	EC-4	SL-4	BS-4			
10-5	PA-5	SA-5	EC-5	SL-5	BS-5			
10-6	PA-6	SA-6	EC-6	SL-6	BS-6			
10-7	PA-7	SA-7	EC-7	SL-7	BS-7			
10-8	PA-8	SA-8	EC-8	SL-8	BS-8			
Record t	ecord the details in the below table:							



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Sr.No.	Activity							
	Dilu tion	Broth culture /Earlier dilution used for further dilution	Qty. of Broth culture/ earlier dilution used.	Qty. of n- saline used.	Dilution identified as			
	10-1							
	10-2							
	10-3							
	10-4							
	10-5							
	10-6							
	10-7							
	10-8							
		Culture : S	. aureus (ATCC 6	538)				
	10-							
	10-2							
	10-3							
	10-4							
	10-5							
	10-6							
	10-7							
	10-8							



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Attachment -2

Template for the preparation of microbial culture suspensions and cell enumeratio

S.No.		Activity									
	Diluti on	Broth culture /Earlier dilution used for further dilution	Qty. of Broth culture/ earlier dilution used.	Qty. of n- saline used.	Dilution identified as						
		Culture :	E. coli (ATCC 8'	739)							
	10-1										
	10-2										
	10-3										
	10-4										
	10-5										
	10-6										
	10-7										
	10-8										
		Culture	Salmonella spp.	(NCTC 6017)						
	10-1										
	10-2										
	10-3										
	10-4										
	10-5										
	10-6										
	10-7										
	10-8										



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S.No.	Activity								
	Diluti on	Broth culture /Earlier dilution used for further dilution	Qty. of Broth culture/ earlier dilution used.	Qty. of n- saline used.	Dilution identified as				
		Culture	e : B. subtilis (AT	CC 6633)					
	10-1								
	10-2								
	10-3								
	10-4								
	10-5								
	10-6								
	10-7								
	10-8								
1.3	Enum	eration of culture suspens	sion: To identify the	he dilution co	ontaining <25	50 cfu/ml.			
1.3.1		er aseptically(1 ml) or petri plates in duplicate.	f 10 ⁻⁵ to 10 ⁻⁸ di	lution of P. <i>c</i>	<i>teruginosa</i> i	nto empty			
1.3.2	Soybea allow i four or	out 15 to 20 ml of previous in Casein Digest Agar me t to solidify at room temper ganisms i.e <i>S. aureus, E. co</i> ture suspensions in freeze.	dium, mix the cu ature. Repeat abo	lture suspens ve step for re	sion with the maining dilu	e agar and itions and			
1.3.3		te the plates in invert post e and report number of cf				o 24) hrs.			



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		Culture : P. aeruginosa (ATCC 9027)									
Dilution No./ID	Qty. of dilution	Lot no. of SCDA	Incubation in date	Incubator no.	Incubatio n out date	No of CFU/plate		Mean CFU/ml			
						1	2				
10-4											
10-5											
10-6											
10-7											
10-8											

	Culture : S. aureus (ATCC 6538)									
10-4										
10-5										
10-6										
10-7										
10-8										



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S.No.			Activity	7					Sign./Dt
Dilutio n No./ID	Qty. of dilution	Lot no. of SCDA	Incubatio n in date	Incubat or no.	Incubation out date	No o CFU/p		Mean CFU/ml	
		Culture	: <i>E. coli</i> (A	TCC 873	9)				
10-4									
10-5									_
10-6									_
10-7									_
10-8									
10 1				ire : <i>B</i> . <i>su</i>	btilis (ATCC	6633)			
10-4 10-5									_
10-5 10-6									_
10-7									-
10-8									-
10 -			Culture	: Salmone	ella spp. (NC	TC 601	17)		
10-4							,		
10-5									1
10-6									1
10-7									1
10-8									1



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S.No.				Ac	tivity					Sign./Dt.	
1.4	Stock cu ml:	Stock culture suspension preparation and confirmation of count per ml:									
1.4.1	culture su	Select the previous dilution of the identified dilution (having <250 cfu/ml) of culture suspension and dilute it further to have sufficient amount of the suspensions.									
1.4.2	Take(5 ml) of selected dilution and add into(45 ml) of n-saline.										
1.4.3	<i>aerugina</i> ml of pre Digest A to solidif	Transfer aseptically 1 ml of stock culture suspension of P . <i>aeruginosa</i> into empty sterile petriplates in duplicate. Add about 15 to 20 ml of previously melted and cooled to approximately 45°C Soybean Casein Digest Agar medium, mix the culture suspension with the agar and allow it to solidify at room temperature. Repeat above procedure for remaining four organism i.e. <i>S. aureus, e.coli, Salmonella spp.</i> and <i>B. subtillis</i>									
1.4.4	Immediately store the stock culture suspensions in freeze. Incubate the plates in invert position at $(30-35^{\circ}C)$ for $(18 \text{ to } 24\text{hrs})$.										
1.4.5	Observe	the plates	and rep	port numbe	r of cfu/p	late. Recor	d in b	elow ta	ble.		
S.No.				Ac	tivity					Sign./Dt.	
		(Culture	:. P. aerug	ginosa (A	TCC 9027))				
Dilution used	Qty. of dilution	Qty. of n-saline	Lot no. of	Incubatio n in date	Incubat or no.	Incubatio n out date				ean (CFU/ml stock culture	
	used.		SCDA				1	2	susp	ension)	
		(Culture	: S. aureus	s (ATCC	6538)		1			
		<u> </u>	Cultur	re : <i>E. coli</i>	ATCC 8	739)		<u> </u>			
									1		



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			Culture : 1	B. subtilis (ATCC 663	3)		
		Cu	lture : Sal	monella sr	p (NCTC (5017)		
				r				
2.0	Fungal enumer		uspension	preparati	on, dilution	and c	ell density	
2.1	Fungal	culture s	uspension	preparati	on.			
2.1.1	Orga	anisms to	be used	Working	ng culture ID Organisms used		ed	
	1. C. all 10231	bicans A	ГСС					
	2. A. ni	ger ATC	C 16404					
2.1.2	•				ose Agar (S Culture of A			
2.1.3		-	of the rece above slan	• •	n working c	culture	of fungal s	trains
2.1.4							for(4 (6-7 days).	
2.1.5	Observe	e the slant	s for growt	h. Record	the details in	n below	v table.	
	Culture	suspensio	on preparat	ion details.	C. albic	cans	A. bracilian	eces
	Identifie	cation of	cultures tub	bes.				
	Lot no.	of SDA n	nedium us	ed.				i
				1		-		



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	Incubator no.							
	Incubation out da	te.						
	Growth observed	/not observed.						
S.No.	Activity							
2.2	Preparation of s	erial dilutions of the	fungal cultures	•				
2.2.1	Take a loopful of n-saline aseptical	the slant culture and t ly.	ransfer into	(9 ml) of sterile				
2.2.2	Use n-saline containing 0.05% polysorbate 80 for making dilutions of fungal culture. Vortex test tubes for about 30 seconds to homogenate the contents.							
2.2.3	Make serial dilution upto 10 ⁻⁸ using sterile n-saline and homogenate contents by vortexing the test tubes for about 30 second while preparing each dilution.							
2.2.5	Identify dilution	s as follows.						
	Dilution	Identificat	tion of culture of	lilutions				
		C. albicans	A	. braciliances				
	10-1	CA-1		AN-1				
	10-2	CA-2		AN-2				
	10-3	CA-3		AN-3				
	10-4	CA-4		AN-4				
	10-5	CA-5		AN-5				
	10-6	CA-6		AN-6				
	10-7	CA-7		AN-7				
	10-8	CA-8		AN-8				



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S.No.			Activity							
2.2.6	Record the details in the below table.									
		Culture : C. albicans (ATCC 10231)								
	Dilution	Broth culture /Earlier dilution used for further dilution	Qty. of Broth culture/earlier dilution used.	Qty. of n- saline used.	Dilution identified as					
	10-1									
	10-2									
	10-3									
	10-4									
	10-5									
	10-6									
	10-7									
	10-8									
		Culture : A. br	aciliances (ATC	CC 16404)						
	10-1									
	10-2									
	10-3									
	10-4									
	10-5									
	10-6									
	10-7									



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Supt			••	111	1 age 110			10.01	21	
	10-8									_
2.3	Enumer	ation of c	ulture su	ispensior	ı.					
2.3.1					0 ⁻⁴ to 10 ⁻⁸ . Add about					
					bouraud Des allow it to s					
2.3.2	Repeat a braciliar		p for re	maining	four dilutio	ns and	d for	dilution	s of A.	-
2.3.4	of A. nig	er at	_(20-25°	C) for	_(20-25°C) : (6 to7) day ne details in]	vs and	observ			
			~ •	<i>a</i> 11						
					icans (ATCO	C 1023	1)			
	Qty. of dilution	Lot no. of SDA	Cultur Incubat ion date	Incuba		C 1023 No of	1)	Mean	final dilutior	nl in the selected 1 for stock aration
on Id			Incubat	Incuba	<i>icans</i> (ATC)	C 1023 No of CFU/	1) /plate	Mean	final dilutior	selected 1 for stock
on Id			Incubat	Incuba	<i>icans</i> (ATC)	C 1023 No of CFU/	1) /plate	Mean	final dilutior	selected 1 for stock
on Id 10 ⁻⁴ 10 ⁻⁵			Incubat	Incuba	<i>icans</i> (ATC)	C 1023 No of CFU/	1) /plate	Mean	final dilutior	selected 1 for stock
on Id 10 ⁻⁴ 10 ⁻⁵ 10 ⁻⁶			Incubat	Incuba	<i>icans</i> (ATC)	C 1023 No of CFU/	1) /plate	Mean	final dilutior	selected 1 for stock
on Id 10 ⁻⁴ 10 ⁻⁵ 10 ⁻⁶ 10 ⁻⁷			Incubat	Incuba	<i>icans</i> (ATC)	C 1023 No of CFU/	1) /plate	Mean	final dilutior	selected 1 for stock
on Id 10 ⁻⁴ 10 ⁻⁵ 10 ⁻⁶			Incubat ion date	Incuba tor no.	<i>icans</i> (ATC)	C 1023 No of CFU/ 1	1) /plate 2	Mean	final dilutior	selected 1 for stock
on Id 10 ⁻⁴ 10 ⁻⁵ 10 ⁻⁶ 10 ⁻⁷ 10 ⁻⁸			Incubat ion date	Incuba tor no.	icans (ATCO Incubatio n out date	C 1023 No of CFU/ 1	1) /plate 2	Mean	final dilutior	selected 1 for stock
on Id 10-4 10-5 10-6 10-7 10-8 10-4			Incubat ion date	Incuba tor no.	icans (ATCO Incubatio n out date	C 1023 No of CFU/ 1	1) /plate 2	Mean	final dilutior	selected 1 for stock
on Id 10 ⁻⁴ 10 ⁻⁵			Incubat ion date	Incuba tor no.	icans (ATCO Incubatio n out date	C 1023 No of CFU/ 1	1) /plate 2	Mean	final dilutior	selected 1 for stock
on Id 10-4 10-5 10-6 10-7 10-8 10-4 10-5			Incubat ion date	Incuba tor no.	icans (ATCO Incubatio n out date	C 1023 No of CFU/ 1	1) /plate 2	Mean	final dilutior	selected 1 for stock



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2.4 S	tock cult	ure suspe	ension pr	reparatio	on and c	onfirmatio	n of co	unt p	er ml:	
2.4.1	culture s suspensi	Select the previous dilution of identified dilution (having <50 cfu/ml) of culture suspension and dilute it further to have sufficient amount of suspensions. Take(5 ml) of selected dilution and add into (45 ml) of n-saline.								
2.4.2	10231) in	Transfer aseptically 1 ml of stock culture suspension of <i>C. albicans</i> (ATCC 10231) into empty sterile petri plates in duplicate. Add about 15 to 20 ml of previously melted and cooled to approximately 45°C Sabarouds Dextrose								
		at room t				n with the a procedure				
2.4.3		mmediately store the stock culture suspensions in freeze at 2-8 °C. not more han 24 hours.								
2.4.4	Incubate the plates of <i>C. albicans</i> at(20-25°C) for(44 to 52 hrs) and for <i>A. braciliances</i> at(6 to 7 days) in invert position .									
2.4.5	Observe	plates and	l report n	umber of	f cfu/pla	te.Record de	etails in	n belo	w table.	
			Cultur	re : C. alb	icans (A	TCC 10231)				
Dilution used	dilution	Qty. of sterile	Lot no. of SDA	ion in	Incuba tor no.	Incubatio n out date	No CFU/		the stock	CFU/ml in x culture
	used.	n-saline		date			1	2	suspensi	on)
		Culture : A. braciliances (ATCC 16404)								
Analyze	d by :				Che	cked By :				

Analyzed by :	Checked By :
Date :	Date :



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Attachment -3

Culture suspension validation template

Date of initial counts observation	: Bacterial	Fungal
Date of final counts observation :	Bacterial	Fungal

Test organism	Initial counts	Final counts	

Done by	Checked by

8. History:

o. motory.		
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