

PHARMA DEVILS

MICROBIOLOGY DEPARTMENT

					DRACEDURE			
Done		. Mianal		ARD OPERATING F	PROCEDURE			
Title: Microbiol Limit Test			t Tost		SUP No.: Effective Date:			
Supe	rsedes:				Review Date:			
Issue Date:					Page No.:			
1.0								
1.0	To lay down a procedure for Microbial limit test							
2.0	To la							
2.0	Scope: This Standard Operating Procedure is applicable to Quality Control							
2.0	Posponeibility							
3.0	Responsibility			· Shall be respe				
	Executive / Sr. Executive-QC			limit tost	: Shall be responsible to follow procedure for microbial			
	Hand OC/Designed			· Shall be resp	limit test.			
10	Abb	roviotio	rs and Definitions	bisible for the comphance of this SOF.				
4.0	SOD	eviatio	is and Definitions	Standard Operating procedure				
	No		•	Number				
		1C	•	Total aerobic microbial count				
	TAMC .			Total yeast and mold count				
	%	IC .		percentage				
50	Proc	edure	·	percentage				
2.0	Frocedure 5.1 Sample Receiving and Preparation			renaration				
	011	5.1.1	Receive all the Ra	w materials in-process	s materials and Bulk finished samples in a			
	sterile glass contair			er or sterile Polythene bag and make the entry as per Annexure				
			-1.					
	5.2 Precautions							
		5.2.1	Handle all cytotox	tic materials with care	using proper personal protective clothing			
			and in case of any	accidental spillage foll	low SOP.			
		5.2.2	Ensure the Bio-sa	fety cabinet is in ope	rational conditions as per Sop "Standard			
			Operating and clea	aning procedure of Bio	safety Cabinet".			
	5.3	Deter	mination of Total a	erobic microbial cou	nts and specified microorganisms			
	5.3.1		Unless otherwise specified in the product release specification, carry out the					
			following tests in I	Raw Materials, in-proc	ess materials and bulk Finished Products.			
		5.3.2	Test for Total aero	bic bacterial count.				
		5.3.3	Test for Total yeas	st and mold count.				
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		STANDARD OPERATING P	ROCEDURE			
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	5.3.4	Test for detection of Pseudomonas aerugin	iosa.			
	5.3.5	Test for detection of Escherichia coli	detection of Escherichia coli			
	5.3.7 Test for detection of Staphylococcus aureus					
	5.3.8	5.3.8 If testing of product as per IP, refer to current version of GTP and record				
		results as per Annexure No.1				
	5.3.9	If testing of the product as per USP, EP an	USP, EP and BP, refer to current version of GTP			
		and record the results as per Annexure No	. 01.			
5.4	Deter	mination of bio load of empty containers				
	5.4.1	Collect 10 containers in sterile tray. Use 10) ml of sterile peptone 0.1% as rinse fluid			
		for rinsing. If container is very small (such as with fill volume of 1.0 ml) then				
		collect 20 containers and use 1.0 ml of	sterile peptone 0.1% as rinse fluid for			
		rinsing				
	5.4.2	Take individual container and add asep	ptically sterile peptone 0.1% and rinse			
		properly. Transfer the same in a sterile tes	t tube aseptically.			
	5.4.3	Carry out the procedure for all ten/twent	y containers, every time transferring the			
		rinse fluid to the same test tube and th	us finally a pool sample of ten/twenty			

5.4.4 Transfer 10.0 ml of the pool sample to each of two sterile membrane filters and filter immediately.

containers is obtained.

- 5.4.5 Wash each membrane by filtering through it appropriate volume (as per validation data) of a sterile buffered sodium chloride peptone solution pH 7.0 or 0.1% Peptone solution.
- 5.4.6 Transfer aseptically one of the membrane filters, intended for the enumeration of bacteria, on to the surface of Soya bean Casein Digest Agar plate and the other, intended for the enumeration of fungi, on to the surface of Sabouraud dextrose Agar.
- Incubate the plates for 5 days at 30°C to 35°C for bacteria and 20°C to 25°C for 5.4.7 yeast and molds.



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		5.4.8 Count	t the number	of color	nies that are fo	ormed on ea	ch type of plate. Report th	ne	
		obser	ved count as	colony f	forming units ((cfu) per con	tainer. Record the results	in	
		data s	heet as per A	nnexure	No. 1.				
)	Forms and Records								
	6.1 Data Sheet for Microbiological Anal				is	: Annexure-1			
	6.2 Microbial limit test acceptance criter				1		: Annexure-2		
	6.3 Certificate Of Analysis (Microbial li				nit test)		: Annexure-3		
	6.4 Data Sheet for bio load of empty conta			iners		: Annexure-4			
)	Reference								
	7.1	Standard Operating and cleaning procedure of Biosafety Cabinet							
	7.3	.3 GTP.							
)	Distribution								
	8.1 Master Copy		:	: Documentation Cell (Quality Assurance)					
	8.2	Controlled Co	opies	:	Quality Con	trol, Quality	Assurance		
)	Histo	ory							
		e	Revision Number		Reason for Revision				
	Dat								