

MICROBIOLOGY DEPARTMENT

		DARD OPERATING PROC						
Depa	rtment: Microbiology		SOP No.:					
Title	Calibration of Water Bath		Effective Date: Review Date:					
-	rsedes: Nil							
Issue	Date:		Page No.:					
1.0	Objective							
	To lay down a procedure for calibrating the water bath.							
2.0	Scope							
	This Standard Operating Procedure is applicable for QC department of formulation plant.							
3.0	Responsibility							
	Executive/Officer-Microbiolog	y : Shall be responsible f procedure mentioned	ible for calibrating the Water Bath as per					
	Head-QC/Designee	-	or implementation and compliance or					
	Tread Qerbesignee	this SOP.						
4.0	Abbreviations and Definitions							
	QC :	Quality Control	Quality Control					
	SOP :	Standard Operating Proc	cedure					
5.0	Procedure							
	5.1 Place four calibrated thermometers at 4 different locations in water bath as displayed in							
	Annexure-1.							
	5.2 Switch "ON" the Instrument and set the temperature by rotating the knob in clockwise and a							
	clockwise directions.							
	5.3 Calibrate the water bath for three set temperatures, 45° C, 60° C and 90° C.							
	5.4 Set the temp of water bath at 45°C, when digital temperature indicator displays 45°C, record the							
	temperature of all thermometers in Annexure-2. Take three concordant temperature reading of							
	temp at every 10 minutes interval.							
	5.5 After completion of readings at 45°C set the temperature of water bath at 60°C and proceed as							
	mentioned in 5.4.							
	5.6 Then set the temperature at 90°C proceeds as mentioned in 5.4.							
	5.7 After completion of calibration switch 'OFF' the instrument.							
	5.8 If the temperatures do not fall in the range then contact engineering department for							
	maintenance.							

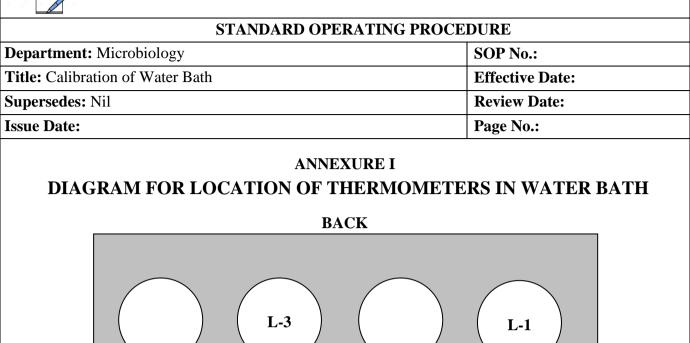


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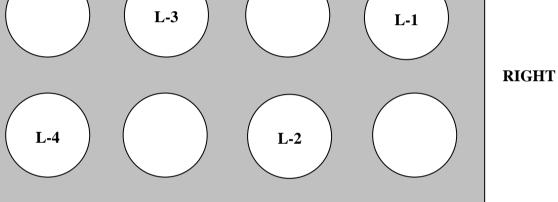
		STANDARD OPI	ERATI	NG PR	ROCEDURE			
Department: Microbiology Title: Calibration of Water Bath Supersedes: Nil					SOP No.:			
					Effective Date:			
					Review Date:			
Issue	Date:				Page No.:			
	:	The temperature displayed by digital ternshall not differ by more than \pm 3°C from Frequency of calibration: Half yearly			ator and by 4 calibrated thermomete			
6.0	Forms and Records							
	6.1	6.1 Location of thermometers in Water B			: Annexure-I			
	6.2	Water Bath Calibration Record		:	Annexure-II			
7.0	Distribution							
	7.1	Master Copy	:	Documentation Cell (Quality Assurance				
	7.2	Controlled Copies	:	Quality Control, Quality Assurance				
8.0	History							
	Dat	e Revision Number		Reason for Revision				
		00	New SOP					



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LEFT



FRONT

Note: L stands for location of Thermometer.



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			MICKO	BIOLOGY DEPA	RIMENT					
		STAN	NDARD O	PERATINO	F PROCE	DURE				
Departm	ent: Microbiolo	SOP No.:								
Title: Ca	libration of Wat		Effective I	Date:						
Supersec	les: Nil		Review Date:							
Issue Date: Page No.:										
			ANN	NEXURE II						
Instrur	nent : V	WATER Water Bath	BATH C	ALIBRATI	ON RECO	ORD				
Set Temper ature	Thermometer No.	Location No.	Temp. O	n Display	Temp On Thermometer		Difference In Temperature			
45°C										
60°C										
90°C										
Equipm	ent ID:									
	f Calibration: H	Half Yearly								
Date of	Calibration:									
Next Cal	libration Due O	n:								
Remark	s: The Instrumer	nt is Calibrate	d and Qual	lified/ Out of	f Calibratio	on and Not (Qualified for	use.		
Accepta	nce Criteria: ± 3	3°C								
Calibrated By: Approved By:								/:		
Date:			Date:							