

PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE		
Department: Production (Soft Gel)	SOP No.:	
Title: Operation and Cleaning of Medicament Mixing Unit	Effective Date:	
Supersedes: Nil	Review Date:	
Issue Date:	Page No.:	

1.0 **OBJECTIVE**:

To lay down the procedure for Operation and Cleaning of Medicament Mixing Unit.

2.0 SCOPE:

This procedure is applicable for the Operation and Cleaning of Medicament Mixing Unit in medicament preparation area.

3.0 RESPONSIBILITY:

Technician/ Officer/ Executive/ Manager-Production.

Head of department: To ensure execution & compliance.

Head QA: To ensure the compliance.

4.0 PROCEDURE:

4.1 Operation

- 4.1.1 Ensure cleanliness of the equipment and area.
- 4.1.2 Ensure that environmental conditions are within the limit as per given in the BMR.
- 4.1.3 Ensure that "CLEANED" label affix on the Medicament Mixing Unit.
- 4.1.4 Ensure that BMR is available and all the entry is properly completed till this stage.
- 4.1.5 Ensure that all the containers are properly cleaned, labeled and kept properly on a pallet at proper place.
- 4.1.6 Ensure that Chilled water, Vacuum, Nitrogen supply and other utilities are required working properly as per specifications mentioned in BMR.
- 4.1.7 Update the "AREA STATUS BOARD" with duly filled and signature of production officer.
- 4.1.8 Take line clearance from QA personnel.
- 4.1.9 Remove "CLEANED" label from the Medicament Mixing Unit and affix the "STATUS LABEL" with duly filled and signature of production officer.
- 4.1.10 Cross check the weight of dispensed medicament raw materials by weighing according to the materials issuance sheet BMR.



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4.1.11	Switch "ON" the Sodium lamp and put "OFF" the fluoresc	ent light in case of light		
sensitive products.				
4.1.12	Switch "ON" the main electric supply of the Medicament Mixing Unit from the electric			
	panel.			
4.1.13	4.1.13 Enter the operation start time of the Medicament Mixing Unit in equipment usage log			
	book as per SOP.			
4.1.14	Push "UP" button to lift up the Medicament Mixing Unit lid.			
4.1.15	4.1.15 Transfer the material into Medicament Mixing Unit step wise as per the procedure			
	described in BMR.			
4.1.16	After transfer of all raw materials into the Medicament Mixing Unit Push "DOWN"			
	button to Down the Medicament Mixing Unit lid.			
4.1.17				
	medicament.			
4.1.18	After proper mixing of the medicament connect the bottom	n discharge valve of the		
	Medicament Mixing Unit with lobe pump inlet valve and outlet valve of lobe pump to			
	inlet valve of the homogenizer.			
4.1.19	Connect the out let valve of the Homogenizer with inlet valve	ve of Medicament Mixing		
	Unit on the lid. And re-circulate the medicament through lol	be pump, homogenizer to		
	Medicament Mixing Unit with continue stirring as per instruction	on of the BMR.		
4.1.20	The Homogenizer is used for the uniform mixing of medicamen	nt powder, liquid and semi		
	solids. It forms a Homogenous mixture.			
4.1.21	After proper mixing of the medicament, use sieve on the Vibr	o Sifter for shifting of the		
	medicament as per the description of the BMR.			
4.1.22	After shifting of the medicament transfer the medicament into	the Medicament Mixing		
	Unit and apply the vacuum for de-aeration process to remove en	trapped air.		
4.1.23 4.1.24	Push "UP" button to lift up the medicament mixing unit lid. Open the bottom discharge valve of the Medicament Mixi	ng Unit and transfer the		
	medicament into medicament holding tank.			
4.1.25	Rinse the inner surface of the medicament mixing vessel, SS	transfer pipe, lobe pump,		
	Homogenizer with used vehicles of medicament.			



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4.1.26	Switch "OFF" the main supply of Medicament Mixing	Unit after batch completion.		
4.1.27	Enter the operation complete time in equipment usage	log book as per SOP.		
4.1.28	.28 Remove "STATUS LABEL" and affix the "TO BE CLEANED" label on the equip			
	with duly filled and signature of production officer.			
4.1.29	Update the "AREA STATUS BOARD" with duly	filled and signature of production		
	officer.			
4.2	Precaution			
4.2.1	Do not run the Medicament Mixing Unit in without any material.			
4.2.2	Discharge valve shall be closed before starting the operation.			
4.2.3	Never leave the Medicament Mixing Unit with materia	al overnight.		
4.3	CLEANING PROCEDURE			
4.3.1	Cleaning procedure Type A			
	Change over from one batch to next batch of the	same product and potency and of		
	similar product with ascending potency.			
4.3.1.1	Remove "TO BE CLEANED" label and affix "U	NDER CLEANING" label to the		
	machine with date and signature of the production offi	cer as per SOP.		
4.3.1.2	Enter the cleaning start time in equipment usage log be	ook as per SOP.		
4.3.1.3	Switch "ON" the main electric supply of the medicame	ent mixing unit from electric panel.		
4.3.1.4	Push "UP" button to lift up the Medicament Mixing Unit lid.			
4.3.1.5	Inside of the Medicament Mixing Unit wipe out with	vehicle (vehicle is the oil in which		
	the medicament has been prepared).			
4.3.1.6	Then clean the outer and inner parts with dry lint free cloth.			
4.3.1.7	Wipe with clean lint free cloth with 70% v/v IPA solution.			
4.3.1.8	Clean the area as per SOP.			
4.3.1.9	Replace the "UNDER CLEANING" status label with	"CLEANED" status label with date		
	and signature of the Production Officer.			
4.3.1.10	Record the cleaning complete time in equipment usage log book as per SOP.			
4.3.2	Cleaning procedure Type B	-		
	This is a cleaning procedure for change over of pro	duct with different active/ colour/		
	descending potency or after maintenance of contact			
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4.3.2.1	Replace the "TO BE CLEANED" status label with "UNDER			
	and signature of the Production officer and enter cleaning time			
4.3.2.2	Enter the cleaning start time in equipment usage log bool	k as per SOP.		
4.3.2.3				
	Panel.			
4.3.2.4	Push "UP" button to lift up the Medicament Mixing Unit	lid.		
4.3.2.5	Remove the below medicament mixing unit and transfer	to the washing area.		
4.3.2.6	Push "DOWN" button to Down the Medicament Mixing Unit lid.			
4.3.2.7	Dismantle the stirrer from the lid, SS outlet medicament pipe and clamps. All these keeps			
	on the SS pallet and transfer to the washing area with tro	lley.		
4.3.2.8	4.3.2.8 All parts rinse with purified water to completely remove adhered medicament. Then clear			
	with 1.0% v/v Teepol solution for properly cleaning of tr	aces of medicament and oil.		
4.3.2.9	Clean the Medicament Mixing Unit lid with purified wa	ter and 1.0% v/v Teepol solution		
	for properly cleaning of traces of medicament and oil.			
4.3.2.10	Finally all parts wash with sufficient purified water t	o clean the trace of the Teepol		
	solution.			
4.3.2.11	Dry the stirrer, lid, SS outlet pipe and Medicament Mix	ing Unit with compressed air and		
	dry lint free cloth.			
4.3.2.12	Use 70 % v/v IPA solution with dry lint free cloth mopin	g of all the cleaned parts.		
4.3.2.13	Assemble the stirrer, SS medicament pipe and clamps to	Medicament Mixing Unit lid.		
4.3.2.14	Push "UP" button to lift up the Medicament Mixing Unit	lid.		
4.3.2.15	Fix the medicament mixing unit below to the Medicam	ent Mixing Unit lid and down it		
	on.			
4.3.2.16	Switch "OFF" the main power supply.			
4.3.2.17	Clean the area as per SOP No. PRD/003.			
4.3.2.18	Replace the "UNDER CLEANING" status label with "C	LEANED" status label with date		
	and signature of the Production Officer.			
4.3.2.19	Record the cleaning complete time in equipment usage lo	og book as per SOP.		
5.0	ANNEXURE (S):			
J.U	Nil			
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6.0 REFERENCE (S):

SOP: Procedure of filling of equipment log book.

SOP: Preparation, approval, distribution control, revision and destruction of standard

operating procedure.

7.0 ABBREVIATION (S) / DEFINITION (S):

BMR : Batch Manufacturing Record

IPA : Iso Propyl Alcohol

v/v : Volume/Volume

ML : Milliliter

SS : Stainless Steel

NA : Not Applicable

REVISION CARD

S.No.	REVISION No.	REVISION DATE	DETAILS OF REVISION	REASON (S) FOR REVISION	REFERENCE CHANGE CONTROL No.
1	00			New SOP	