

QUALITY ASSURANCE DEPARTMENT

# VALIDATION REPORT FOR MIXING AND LUBRICATION OF GRANULES IN FLUID BED EQUIPMENT

1.	<b>Objective:</b>	Objective:					
				Batch No.:			
				Nos., so as to establish that			
				physical parameters like Tapped within the specified ranges.			
	Density, Loss C	on Drying and rarticle of	20 Distribution are	within the specifica ranges.			
2.	Scope:	Minima and Tarloriandian a	6	D - 1 F			
	Applicable to N	Iixing and Lubrication of	i granules in Fluid	Bed Equipment.			
3.	Justification:						
4.	Site of the Stud	lv:					
		Manufacturing Department.					
	Location	·					
5.	Responsibility:	:					
		Production	:				
		Engineering	:				
		Quality Control	:				
		Quality Assurance	:				
6.		the Equipment to be us	sed λ:				
	Equipment	:					
	CODE No.	:					
	CAPACITY	:					
	λ Date of Equip	oment Qualification done	on:	_			
	Sampling Thief	code No.:	-				
	Bulk sampler C	ode No.:					
7.	Standard One	rating Procedure (SOP)	& Ratch Manufa	ncturing Record (RMR) to be			
•	Standard Operating Procedure (SOP) & Batch Manufacturing Record (BMR) to be followed:						
	i) SOP for ope	erating Fluid bed equipm	ent : SOP No				
	ii) SOP for sar	npling with sampling thi	ef : SOP No				
	iii) SOP for che	ecking Loss on Drying (L	.OD) : SOP No				
		_					



QUALITY ASSURANCE DEPARTMENT

# VALIDATION REPORT FOR MIXING AND LUBRICATION OF GRANULES IN FLUID BED EQUIPMENT

	iv) SOP for Pour Bulk and		•	No			
	<ul><li>v) SOP for water content (</li><li>vi) SOP for Particle Size D</li></ul>			No			
	vii) Batch Manufacturing I	Record: For	mulation cod	le No:			
8.	Controls:	1	Manufacturin	g Code No:	:		
	8.1 Requirements:						
	I) Status of Raw Ma	iterials to be	e used:				
	Raw material		y required Kg.	Analy Referen		Checked by	
	II) Reference protoc	col number	/ Reference S	Specification	n No.		I
	III) Analytical Refersheet).			-			•
	T. I. Sheet sent for analy	rsis of	A. R	. No.	(	Checked by	
	8.2 Calibration:	1			<b>'</b>		
	i) Calibration of	letails of te	st apparatus t	to be used:			
	Apparatus	Code N			dibration due on	Checked by	

Calibration details of Fluid Bed Equipment:

ii)



QUALITY ASSURANCE DEPARTMENT

## VALIDATION REPORT FOR MIXING AND LUBRICATION OF GRANULES IN FLUID BED EQUIPMENT

Item	Calibration Done on	Calibration Due On	Checked by

#### 8.3 Training:

i) Training details of personnel involved in validation:

Name	Training Status	Training reports availability	Checked by

#### **8.4** Precautions:

Safety aspects while operation of equipment and process must be ensured.

#### 9. Validation Procedure:

Carry out the validation as per the Protocol

Equipment	
Product	
Formulation Code No.	
Manufacturing Code No.	
Batch No.	
Mixing time as per BMR	
Lubrication time as per BMR	
Date of validation	

#### 10. Acceptance criteria:

The Optimal time decided should conform to the following:

i) Uniform distribution of the lubricated granules, when checked visually.



# PHARMA DEVILS QUALITY ASSURANCE DEPARTMENT

# VALIDATION REPORT FOR MIXING AND LUBRICATION OF GRANULES IN FLUID BED EQUIPMENT

	ii)	Content of Active Ingredient upon testing as per Quality Control Specification should be within % w/w to % w/w.					
	iii)	The Relative Standard Deviation (RSD) of content of Active Ingredient sampled at the optimal time should be less than 5%.					
	iv)	Results of physical parameters of the lubricated granules, sampled at the standard time (As given in BMR) should be within the limits specified in the BMR.					
11.	Non Compliances:						
i)		Details of Deviations:					
		Deviation Report dated Checked by					
ii	)	Details of OOS results:					
		OOS Report dated Checked by					
<ul><li>12.</li><li>13.</li></ul>	Type of Validation: Concurrent validation / Re-validation  Frequency: 1) Concurrent validation: Three consecutive successful validation exercises.						
	2) R	e-validation (Periodic): One validation exercise should not exceed five year					
	3) R	evalidation (after major change): Three consecutive successful validation exercises.					
14.	Res	sults/Observations:					
		king CHEMICAL ANALYSIS					
	(	Results of Content as per Quality Control Report # A.R. No.:  Technical Information sheet attached)					
		Reviewers Comments/Remarks: APPEARANCE OF MIX AFTER MIXING					
	Rev	viewers Comments/Remarks:					



# PHARMA DEVILS QUALITY ASSURANCE DEPARTMENT

## VALIDATION REPORT FOR MIXING AND LUBRICATION OF GRANULES IN FLUID BED EQUIPMENT

	<b>EQUIPMENT</b>	
Lubrication:		
a) CHEMICAL ANA	LYSIS:	
Results of Content as particular (Technical Information she	per Quality Control Report # A. et attached)	R. No.:
Reviewers Comments / R	emarks:	
b) APPEARANCE	OF LUBRICATED GRANU	LES AFTER LUBRICATION
Reviewers Comments / R	emarks:	
c) PHYSICAL PAR	AMETERS:	
1) GRANULES SIZE DIS	STRIBUTION (%w/w):	
Refer attached annexure _		
Mesh No.	SIVE INTEGRI	ГҮ СНЕСКЕД
Used	Before	After
20#		
40#		
60#		
80#		
100#		

$\sqrt{\text{Satisfactory}}, \times \text{Not Satisfactor}$	y
---	---

#### **Reviewers comment / remark:**

After \_\_\_\_\_ mins. (As per BMR)

Test	Results	Acceptance criteria
Pour Bulk density		
Tapped density		
Loss on drying		
Particle Size Distribution		

- 15. Summary of findings of Validation (inference):
- 16. Recommendation (Including requirements of any additional documentation):



QUALITY ASSURANCE DEPARTMENT

#### VALIDATION REPORT FOR MIXING AND LUBRICATION OF GRANULES IN FLUID BED **EQUIPMENT**

17.	Team app	proval:		
]	Production	on Engineering	Quality Control	Quality Assurance
18.		nclusive of follow up action, if any	·):	
19.	Approved	l by:		
		UNIT QUALITY ASSURANCE Date:	UNIT HEAD	
20.	Attachme	ents:		
21.	Abbrevia	tions:		
	% %w/w gm/ml	<ul><li>: Percent</li><li>: Percent weight /weight</li><li>: Gram per millilitre</li></ul>		

B. No. : Batch Number

Lt.

: Litres No. / Nos : Number / Numbers

Min. : Minutes

: Analytical Reference Number A.R. No.

: Out of Specification OOS

: Milligram mg. : Kilogram Kg.