

# PHARMA DEVILS

QUALITY ASSURANCE DEPARTMENT

## VALIDATION LUBRICATION OF RAW MATERIALS IN PLANETARY MIXER

## 1. Objective:

To validate the process of Lubrication of Ingredients.\_\_\_\_\_ B.No.:\_\_\_\_\_ &Batch size\_\_\_\_\_ Kg. \_\_\_\_Nos., so as to establish that the blend uniformity of active ingredient is achieved at the standard Lubrication time and the results associated with chemical analysis and physical parameters are within the specified ranges.

## 2. Scope:

Applicable to Lubrication of Raw materials in Planetary Mixer.

3. Principle:

Lubrication of raw materials due to rotation of Stirrer in Planetary Mixer.

4. Site of the Study:

Hormone Department.

5. Responsibility:

6.

7.

		:
	Engineering	:
	Quality Control :	
	Quality Assurance	:
Description of	the Equipment to be us	ed:
Equipment	: PLANETARY N	ΛΙΧΕR $λ$
CODE No	:	
CAPACITY	:	
RPM (Stirrer)	: RPM at slo	w speed andRPM at fast speed
-	ode no	& Batch Manufacturing
-	to be followed:	
1) COD C	ating Planetary Mixer	:
1) SOP for opera		_
-	pling with sampling thie	f :
ii) SOP for sam		f : D) : SOP No



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SOP for checking Water content (if applicable): SOP No.SOP for checking Particle Size Distribution: SOP No.

Batch Manufacturing Record : Formulation Code No. \_\_\_\_\_

:\_\_

Manufacturing Code No.

:\_\_\_\_\_

#### 8. Control:

#### 8.1 **Requirements:**

#### i) ACTIVE PHARMACEUTICAL INGREDIENT:

Active Pharmaceutical Ingredient

Pharmacopoeial grade

Test	Results	*Results	*Results	
▼	A.R No.:	A.R No.:	A.R No.:	Acceptance Criteria

\* In case material of two or more Analytical Reference Number is used

Active Pharmaceutical Ingredient	Quantity required in Kg.	Analytical Reference No.	Checked by

Analytical method validation protocol No.\Reference Specification No. \_\_\_\_\_

**Note:** if more than one active is present in the product then attached annexure, i.e, same of this page (Sr.No.:-8.1).

# ii) Analytical Reference number for validation Technical Information Sheet (T.I. Sheet).

T. I. Sheet sent for analysis of	A. R. No.	Checked by

#### 8.2 Calibration:

i) Calibration details of Planetary Mixer



## VALIDATION LUBRICATION OF RAW MATERIALS IN PLANETARY MIXER

S.No.	Equipment	Code No.	Calibration Done	<b>Calibration Due</b>
			on	on

## ii) Calibration details of test apparatus to be used:

S.No.	Apparatus	Code No	Calibration done on	Calibration due on	Checked by

## 8.3 Training:

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.



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#### 9. Validation Procedure:

Carry out the Validation as per the Validation Protocol

Equipment	
Product	
Lubrication time as per BMR	
Sampling to be drawn at intervals of	
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.
- ii) Content of Active Ingredient upon testing as per Quality Control Specification should be within \_\_\_\_\_% to \_\_\_\_\_% (Limits as specified in the specification)
- iii) The Relative Standard Deviation (RSD) of content of Active Ingredient sampled at standard lubrication time should be less than 5%.
- iv) Results of physical parameters of Lubricated granules sampled at standard lubrication time should be within limit specified in BMR

#### **11.** Non Compliances:

#### **11.1 Details of Deviations:**

Deviation Report dated	Checked by

#### **11.2 Details of OOS results:**

OOS Report dated	Checked by

#### **Reviewers Comments / Remarks:**



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#### **12.** Type of Validation:

- 1) Concurrent validation
- 2) Re-validation

#### 13. Frequency:

- 1) Concurrent validation : Three consecutive successful validation exercises.
- 2) Re-validation (Periodic): One validation exercise within five years.
- 3) Revalidation (after major change) : Three consecutive successful validation exercises.

#### 14. Results/Observations:

a) CHEMICAL ANALYSIS

Results of Content as per Quality Control Report A.R.No.:\_\_\_\_\_\_(Technical Information sheet attached)

#### **Reviewers Comments / Remarks:**

b) Results of Water content as per Quality Control Report (if applicable) A. R. No.: \_\_\_\_\_

(Technical Information sheet attached)

#### **Reviewers Comments / Remarks:**

c) APPEARANCE OF LUBRICATED GRANULES AFTER LUBRICATION

**Reviewers Comments / Remarks:** 

#### PHYSICAL PARAMETERS

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

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

#### **Reviewers Comments / Remarks**

**15.** Summary of findings of experiment (inference):



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#### **16.** Recommendation (Including requirements of any additional documentation):

#### 17. Team approval:

Production Date: Engineering

Quality Control

UNIT HEAD

Quality Assurance

## 18. Review (inclusive of follow up action, if any):

### **19.** Approved by:

UNIT QUALITY ASSURANCE

Date:

#### 20. Attachments:

#### 21. Abbreviations:

%	: Percent
B.No.	: Batch Number
Lts.	: Litres
No. / Nos	: Number / Numbers
A.R.No.	: Analytical Reference Number
RSD	: Relative Standard Deviation
OOS	: Out of Specification
mg.	: Milligram
Kg.	: Kilogram
RPM	: Revolutions Per Minute
%w/w	: Percent weight by weight
BMR	: Batch Manufacturing Record
T.I Sheet	: Technical Information Sheet
SOP	: Standard Operating Procedure
API	: Active Pharmaceutical Ingredients
RPM	: Revolution Per Minute