

# PHARMA DEVILS QUALITY ASSURANCE DEPARTMENT

## LUBRICATION OF INGREDIENTS IN IPC BLENDER

1.			ts of B. No.:				
	active ingredient		so as to establish that the blend uniform ation time and the results associated win the specified ranges.				
2.	Scope: Applicable to Lu	Scope: Applicable to Lubrication of ingredients in IPC Blender.					
3.	<b>Principle:</b> Lubrication of in	Principle: Lubrication of ingredients due to tumbling action in the IPC Blender.					
4.	Site of the Study Manufacturing D Location:						
5.	Responsibility:	Production :					
		Quality Assurance :					
6.	-	ne Equipment to be used: : Octagonal Blender λ :					
	CAPACITY	:					
	λ Equipment Qua	alification done as per protocol da	red				
	Sampling Thief of	code No.:					
	Bulk Sampler Co	ode no.:					
7.	followed: SOP for operating SOP for checking Batch Manufacture	g Octagonal Blender g with Sampling thief g Loss On Drying (LOD) g pour Bulk and Tapped Density g Water content (if applicable) g Particle Size Distribution					



## LUBRICATION OF INGREDIENTS IN IPC BLENDER

•	Contr 8.1		uirements:						
		i)	ACTIVE P	HARMA(	CEUTICAL	INGRI	EDIENT:		
			Active Pharm	aceutical 1	Ingredient	:			
		1	Pharmacopoeial		8			_	
			-	·		•	1		
	Test	t	Results A.R No.:	*Results	*Resu	lts No.:	Accepta	nnce Criteria	
	•		71111 1 1011	71314 1 44	7111	1100			
	* Incase material of two or more Analytical Reference Number is used								
	Activ	Active Pharmaceutical		Quanti	Quantity required Anal		nalytical	Checked	
	11001		edient		n Kg.		ference No. by		
	D. C		1 4 1 1 7 1 1 1	4.		/D 6		P° 4° NT	
	Keierenc	e An	alytical Valida	tion proto	ocol number	/ Keier	ence Specii	ication No	
	Note: If r	nore t	than one active	is present	in the produc	t then a	ttached ann	exure,i.e, same of	this p
j	ii) Analy	tical 1	Reference num	ber for v	alidation Te	chnical	Informatio	on Sheet (TI She	et).
	TI	Shoot	sent for analys	ric of	<b>A</b> .	R No.		Checked by	1
	11	SHEEL	sent for analys	515 UI	A	IX 11U.		Checked by	
.2	Calib	ration	ı:						
	i) (	Calibr	ation details of	Octagonal	blender (RP	M and T	Timer):		
	, 				· .		·	Colibration	1
	S.No.		Equipment		ode No.	Call	oration	Calibration	

S.No.	Equipment	Code No.	Calibration Done on	Calibration Due on





### LUBRICATION OF INGREDIENTS IN IPC BLENDER

### 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.

### 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	



11.

**12.** 

**13.** 

**14.** 



### LUBRICATION OF INGREDIENTS IN IPC BLENDER

1(	).	Accep	tance	crit	eria:

The C	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 mixing time should be less than 5%.					
iv)	Results of physical parameters of Lubricated granules sampled at standard mixing time should be within limit specified in BMR					
Non	Compliances:					
11.1	Details of Deviations:					
	Deviation Report Dated	Checked By				
11.2 Details of OOS results:						
11.2	Details of OOS results:					
11.2		Checked By				
11.2	Details of OOS results:  OOS Report Dated	Checked By				
		Checked By				
Revie Type	OOS Report Dated	Checked By				
<b>Type</b> 1) (2) F  Frequence 1) C 2) R	OOS Report Dated  ewers Comments/Remarks:  of Validation: Concurrent validation	exercises. xceed five years.				
<b>Type</b> 1) (2) F  Frequence 1) C 2) R 3) R	OOS Report Dated  ewers Comments/Remarks:  of Validation: Concurrent validation Re-validation  uency: Concurrent validation: Three consecutive successful validation e-validation (Periodic): One validation exercise - should not e	exercises. xceed five years.				

Results of Content of active ingredients as per Quality Control Report A. R. No.: \_\_\_\_\_

(Technical Information sheet attached)

Reviewers Comments / Remarks:



# PHARMA DEVILS QUALITY ASSURANCE DEPARTMENT

## LUBRICATION OF INGREDIENTS IN IPC BLENDER

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					
	Davias	wers Comment	a / Damanka				
	Reviev	wers Comment	s / Remarks:				
PH	HYSIC	AL PARAME	ETERS:				
Af	ter	mints. (A	s per BMR)				
		Test	Results	Accepta	nce criteria		
P	our Bu	ulk density					
T	apped	density					
L	oss on	drying					
	article Istribu						
Re	eviewei	rs Comments	Remarks:				
	Summ	nary of finding	gs of experiment (in	ference):			
,	Recon	nmendation (I	ncluding requireme	ents of any additional	documentation):		
•	Team	approval:					
	oduction ate:	on	Engineering	Quality Control	Quality Assurance		
•	Rovies	w (inclusive of	follow up action, if	anv)•			
•	TAC AIC.	w (merusive or	ionow up action, n	. u11y /•			



#### LUBRICATION OF INGREDIENTS IN IPC BLENDER

19.	Appro	ved by:

UNIT QUALITY ASSURANCE UNIT HEAD

Date:

#### **20.** Attachments:

#### 21. Abbreviations:

% : Percent

B.No. : Batch Number

Lt. : Litres

No. / Nos : Number / Numbers

A.R.No. : Analytical Reference Number RSD : Relative Standard Deviation

OOS : Out of Specification

mg. : Milligram Kg. : Kilogram

SOP : Standard Operating Procedure
BMR : Batch Manufacturing Record
T. I. Sheet : Technical Information Sheet
API : Active pharmaceutical Ingredient

RPM : Revolution per Minute