

PRODUCTION DEPARTMENT

STANDARD OPERATING PROCEDURE		
Department: Production	SOP No.:	
Title: In-process checks during batch manufacturing and packing	Effective Date:	
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1.0 OBJECTIVE:

To lay down a procedure for In process checks during batch manufacturing and Packing.

2.0 SCOPE:

This SOP is applicable for In process checks during batch manufacturing and Packing.

3.0 RESPONSIBILITY:

Officer /Executive/Assistant Manager

Head Production: To ensure execution & compliance.

Head QA: To ensure the compliance.

4.0 PROCEDURE:

4.1 Granulation:

- 4.1.1 Check the cleanliness of the area.
- 4.1.2 Check the relative humidity, temperature and differential pressure of the area.
- 4.1.3 Check the dispensed material with respective to BMR.
- 4.1.4 Transfer the sieve as per the instruction given in BMR.
- 4.1.5 Check the integrity of the sieve before and after sifting activity.
- 4.1.6 Transfer the screen as per the instruction given in BMR.
- 4.1.7 Check the integrity of the screen before and after milling activity.
- 4.1.8 Check the ampere reading at the end point granulation.
- 4.1.9 Product dedicated finger bag to be used.
- 4.1.10 Check the loss on drying of granules as per BMR instructions.
- 4.1.11 Check the yield of sifted and milled granules and lubricated granules.

Note: Ensure that the lubricated granules transfer to clean IPC bin and with proper status label.



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4.1.12	In case of any deviation inform to Q.A.		
4.1.13	Check all the In process checks during granulation	stage as per frequency and	
	parameter given in Batch Manufacturing Record		
4.2	Compression:		
4.2.1	Check the cleanliness of the area.		
4.2.2	Check the relative humidity, temperature and differential pressure of the area.		
4.2.3	Check the individual weights of tablet from all station according to the total number		
	of stations on the machine.		
4.2.4	Check the weight of tablets as per Batch manufacturing	g record at the initial and after	
	every 30 minutes.		
4.2.5	Check the thickness and hardness initially and then at	t regular interval as per batch	
	manufacturing record.		
4.2.6	Check the disintegration time of tablet initially and t	hen at regular interval as per	
	batch manufacturing record.		
4.2.7	Check the friability of tablets as specify in Batch manu	afacturing Record initially and	
	then at regular interval as per batch manufacturing recor	rd.	
4.2.8	Check the individual weight variation of all station	initially and then at regular	
	interval as per batch manufacturing record.		
4.2.9	Pass the tablets through the metal detector. Challenge test with the test pieces is to be		
	done at the start of operation, end of operation, at power	er failure and at every break in	
	operation.		
4.2.10	Check the yield of compressed tablets.		
4.2.11	Check all the In process checks during Compression	n stage as per frequency and	
	parameter given in Batch Manufacturing Record.		
4.2.12	For slugging check hardness of slug and record the same	e in BMR.	
	Note: Ensure that the compressed tablets in SS contain	er lined with double poly bags	
	Tiote: Ensure that the compressed tablets in 55 contain	er inica with dodole pory bags	



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4.3 Coating:

- 4.3.1 Check the cleanliness of the area.
- 4.3.2 Check the relative humidity, temperature and differential pressure of the area.
- 4.3.3 Check the Inlet and exhaust temperature every 30 minutes.
- 4.3.4 Check the compressed air pressure and bed temperature.
- 4.3.5 Check the weight gain every 30 minutes and at the end of the coating operation.
- 4.3.6 Check the individual weight of 20 tablets after coating operation.
- 4.3.7 Check the disintegration time of coated tablets.
- 4.3.8 Check the thickness of coated tablets.
- 4.3.9 Check the filtration of coating solution in Muslin cloth.
- 4.3.10 Check all the In process checks during Coating stage as per frequency and parameter given in Batch Manufacturing Record and record the same in BMR.

4.4 Inspection:

- 4.4.1 Check the cleanliness of the area.
- 4.4.2 Check the relative humidity, temperature and differential pressure of the area.
- 4.4.3 Pass the tablets/Capsules on the inspection roller and find out the defect tablet/capsule .process to be checked at every 30 minutes intervals and record it in BMR.
- 4.4.4 After completion of Inspection collect the good tablets/capsules in ss container with proper status label and collect the rejected tablet/capsules in separate poly-bag and dispose it into water for destruction and note down the rejected qty. of tablets/capsules in respective BMR.

4.5 Packing:

- 4.5.1 Check the cleanliness of the area.
- 4.5.2 Check the relative humidity, temperature specified as per respective BPR and differential pressure of the area.
- 4.5.3 Check the relative humidity and temperature of blister / strip packing room.



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4.5.4	Forming temperature of blister pack machine to be BPR.	e checked at regular interval as per		
4.5.5	Sealing temperature of blister/strip machine to be BPR.	checked at regular interval as per		
4.5.6	Leak test of blisters /strips to be checked initially batch packing record.	y and then at regular interval as per		
4.5.7	4.5.7 Perform all in-process checks if the machine is idle for more than 1 hour.			
4.5.8	Printed text matter to be checked after each char BPR.	nge of roll/joint and proof attach in		
4.5.9	Check individual weight of 20 packed cartons. It cartons, give the minimum weight (after deduction maximum weight (after adding weight of half strip	ing weight of half strip/blister) and		
4.5.10	Check net weight of 20 packed shippers and reconsidering for calculation provides than 20 shippers, The entire shipper packed considering for calculation. In case of only one verified physically by production & QA.	d in BPR. Give the minimum and otal quantity of shipper for a batch is ked except loose shipper shall be		
4.5.11	If the shipper net weight is more or less than the shipper net weight limit then check the shipper for physical verification by production & QA, reweigh the shipper & record the weight.			
4.5.12	If all the shippers' net wt. is within the specified limit then note down the minimum & maximum net wt. of shipper and physically verify the same shipper by production & QA.			
4.5.13	In Case of any abnormality found during weighin actual quantity of blisters/strips/cartons in the ship and Quality Assurance department for necessary c	pper and inform to department head		



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4.5.14	Check the challenge test for NFD (Non-filled det	ector) device/ Camera at the start of		
1.3.11	the batch, every four-hour and at the end of batch			
4.5.15	Check the horizontal, vertical cutting and knurling			
4.3.13	as per batch packing record.	, initially and then at regular interval		
	as per baten packing record.			
4.5.16	Verify the insertion of leaflet / Spoon / Silica gel e	etc. (Which is applicable) and record		
1.3.10	the same in batch packing record.			
4.5.17	Check 100% visually for the overprinted carton ar	nd label		
4.5.18	•			
4.5.19	Check 100% visually pack inserts and blisters / strips before packing on the belt. Check the dispensed quantity of aluminum foil / PVC of one batch and transfer to			
4.3.17	Primary packing area.	TVC of one baten and transfer to		
4.5.20	Attach initial and every start up specimen alun	ninum foil / blister with printing /		
4.3.20	embossing to BPR after approval by QA.	minum fon / blister with printing /		
4.5.21	Verify the sample of foil at every change of prin	ted roll/joint in roll and attached to		
4.3.21	BPR.	ned foll/joint in foll and attached to		
4.5.22		voussinted conton and fail in DDD if		
4.3.22	4.5.22 Attach initial and every start up specimens of overprinted carton and foil in BPR if			
4 5 22	machine is idle more than one hour after approval	by QA.		
4.5.23	Store overprinted cartons under lock and key.			
	4.5.24 Ensure that during breaks no tablet should present in the web /chute of the machine.			
4.5.25	Pack the de-foiled / De-blister Inspected tablets /	Inspected Capsule at the end of the		
	batch packing.			
4.5.26	Destroy the rejection of de-foiled / De-blister Insp	pected tablets / Inspected Capsule by		
	putting in water.			
4.5.27	During packing of de-foiled / De-blister tablets /	Capsule /rejected blister / Strip shall		
	be destroyed and not use for further.			
4.5.28	Check all the In process checks during Manufactu	ring and Packing stages as per		
	frequency and parameter given in Batch Manufact	curing Record and Batch Packing		
	Record and record the same in respective BMR/B	PR.		

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4.6 Capsule Filling

- 4.6.1 Check the cleanliness of the area
- 4.6.2 Check the relative humidity, temperature given as per BMR and differential pressure of the area.
- 4.6.3 Check appearance, locking length Disintegration time& uniformity of weights initially and then at regular interval as per batch manufacturing record of capsule.
- 4.6.4 Check weight of 20 filled capsules initially and then at regular interval as per batch manufacturing record.
- 4.6.5 Challenge the Empty capsule sorter as per procedure given in the BMR and record the same.

5.0 ANNEXURE (S):

Nil

6.0 REFERENCE (S):

Nil

7.0 ABBREVIATION (S) / DEFINITION (S):

BMR : Batch Manufacturing Record.

BPR: Batch Packing Record.

PVC: Poly Vinyl Chloride

PVDC: Poly Vinyl Di-Chloride

Q.A. : Quality Assurance.

SOP : Standard Operating Procedure.

REVISION CARD

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