



PHARMA DEVILS
PRODUCTION DEPARTMENT

BATCH MANUFACTURING RECORD

Product Code:		BMR No.:	
Product Name: Amlodipine Besilate Tablets IP		Generic Name: Amlodipine Besilate Tablets IP	
Document No.:	Effective Date:	Page No.: 1 of 18	
Batch No.:	Batch Size:	Supersedes No.:	

Location:	
Block: Production Tablets (PT)	
Label Claim:	Each uncoated tablet contains: Amlodipine Besilate IP Eq. to Amlodipine 5 mg Excipientsq.s.
Mfg. Lic. No.:	
Product Lic. No.:	NA
Self-Life:	24 months
MFR No.:	
Mfg. Date:	
Exp. Date:	
BMR Issued No.:	
Party:	

Issued By Stamp & Sign.

Responsibility	Name	Designation	Sign	Date
Prepared By				
Checked By				
Approved By				



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1.0 MASTER FORMULA:

BILL OF RAW MATERIALS

S.No.	Ingredients	Spec.	Qty. in mg Per Tablet	Overages %	Std. Qty. for 1 Lac. in Kg
Raw Material for Dry Mixing:					
Active Ingredients-					
1.	Amlodipine Besilate	IP	7.25 eq. to 5 mg	----	0.725#
Inactive Ingredients-					
2.	Microcrystalline Cellulose PH-112 (MCCP-112)	IP	93.26	-----	9.326
Raw Material for Lubrication-					
6.	Colloidal Silicon Dioxide (Aerosil)	IP	2.00	----	0.200
7.	Sodium Bicarbonate	IP	3.00	----	0.300
8.	Talcum Powder	IP	2.00	-----	0.200
9.	Sodium Lauryl Sulphate	IP	1.50	-----	0.150
10.	Sodium Starch Glycolate (Primogel)	IP	4.00	-----	0.400
11.	Magnesium Stearate	IP	2.00	-----	0.200
Weight of Uncoated Tablets			115.01 mg		11.501 Kg

Note: # Amlodipine Besilate IP adds after calculation if assay below 99%.

	Prepared By	Checked By	Approved By
Signature			
Date			



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CALCULATION SHEET

1- Amlodipine Besilate IP is to be taken as per the formula given below:

Note: If assay of API is above 99.0% calculation not required.

Part-A: To be calculated when single AR No.: _____

Assay on dried basis: _____ **LOD:** _____

PART-A: To be calculated when single A.R. No of **Amlodipine Besilate IP** is to be used:

If calculated quantity is less than std. qty. then dispense std. Qty.

Assay on as such basis = $\frac{(100-LOD) \times \text{Assay on dried basis}}{100}$ = _____ %

A.R. No. of Amlodipine Besilate IP	Assay on as such basis (A1)	Actual quantity of this A.R. No. to be dispensed =
	-----%	$\frac{\text{---} \times 100}{A1} = \text{-----Kg}$

PART-B: To be calculated when more than one A.R. No's of **Amlodipine Besilate IP** is to be used:

A.R. No. of Amlodipine Besilate IP	Assay on as such basis (A1)	Actual quantity Available (b1) (Kg)	Qty. on 100 % assay basis = $\frac{(b1) \times (a1)}{100}$ Kg	Remaining qty. to be dispensed (e1) = Std. qty. -(c1)
				(e1) = ___# - _____ = _____ Kg
TOTAL (Kg) ---		_____	(c1)=_____	

Assay of next AR No. ----- (Assay on as such basis) (f1) = _____ %

Actual quantity of this AR. No. to be dispensed (g1) = $\frac{(e1) \times 100}{(f1)}$ = -----Kg

Therefore total quantity of **Amlodipine Besilate IP** to be dispensed = (b1) + (g1) = _____ Kg

Assay calculation:

Sign/Date		
Department	Done by (Production)	Checked by (Q.A.)

	Prepared By	Checked By	Approved By
Signature			
Date			



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2.0 GENERAL INSTRUCTIONS:

- Current version of SOPs should be referred during operation.
- Dispensed raw material/bulk blend/ compressed tablets should be manufactured and stored at temperature not exceeding 27°C and RH NMT 55%
- In all the processing activities, nose mask, hand gloves, secondary gown etc. shall be wearied by the personnel.
- Attach all dispensing tags and cleaning status labels with BMR.
- Clean the equipment's after use as per the standard operating procedure.
- The Blend should be compressed within 15 days.
- The compressed tablets should be packed within 30days.

2.1 Line clearance of Dispensing:

Check the instructions given below and note the observation as Yes, NO or NA.

S.No.	Instructions	Yes/No/NA
1.	Is dispensing area clean and free from any materials of previous batches?	
2.	Whether balance is calibrated and have status label.	
3.	Scoops to be used for dispensing are clean.	
4.	LAF properly working and dispensing booth clean.	
5.	Air differential pressure, temperature and humidity with in limit (if applicable) Temp. ----- °C (NMT 27°C), RH-----% (NMT 55.0%), DP..... (6 to10 Pascal)	
6.	Material shall be least exposed to atmosphere.	
7.	Ensure proper gowning before entering to the dispensing area, suitable nose mask and surgical gloves shall be used while handling the material.	

Previous product name: _____

Batch No.: _____

Differential pressure across RLAF and Room: _____ (Limit(Between 5 to 15 Pascal))

Checked By (Production):
Sign & Date:

Verified By (IPQA):
Sign & Date:

	Prepared By	Checked By	Approved By
Signature			
Date			



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BILL OF RAW MATERIALS

(PRODUCTION COPY)

S. No.	Ingredients	Std. Qty. for 1 Lac. In Kg	@ Req. Qty. In Kg	Issued Qty. In Kg	A.R. No.	Weight in Kg			Wt. By Store	Chkd. By	
						Gross	Tare	Net		Prod	QA
Raw Material for Dry Mixing-											
Active Ingredients-											
1.	Amlodipine Besilate IP	0.725#									
Inactive Ingredients-											
2.	Microcrystalline Cellulose PH-112 (MCCP-112) IP	9.326									
3.	Colloidal Silicon Dioxide (Aerosil) IP	0.200									
4.	Sodium Bicarbonate IP	0.300									
5.	Talcum Powder IP	0.200									
6.	Sodium Lauryl Sulphate (SLS) IP	0.150									
7.	Sodium Starch Glycolate (Primogel) IP	0.400									
8.	Magnesium Stearate IP	0.200									

Note: # Amlodipine Besilate IP adds after calculation if assay below 99%.
@ Calculate the materials as per required batch size.

Dispensed by
Stores
Date

Checked by
Production
Date

Verified by
QA
Date

	Prepared By	Checked By	Approved By
Signature			
Date			



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Page No. 6 of 18 store copy

BILL OF RAW MATERIALS:

(STORE COPY)

S. No.	Ingredients	Std. Qty. for 1 Lac. In Kg	@ Req. Qty. In Kg	Issued Qty. In Kg	A.R. No.	Weight in Kg			Wt. By Store	Chkd. By	
						Gross	Tare	Net		Prod	QA
Raw Material for Dry Mixing-											
Active Ingredients-											
1.	Amlodipine Besilate IP	0.725#									
Inactive Ingredients-											
2.	Microcrystalline Cellulose PH-112 (MCCP-112) IP	9.326									
3.	Colloidal Silicon Dioxide (Aerosil) IP	0.200									
4.	Sodium Bicarbonate IP	0.300									
5.	Talcum Powder IP	0.200									
6.	Sodium Lauryl Sulphate (SLS) IP	0.150									
7.	Sodium Starch Glycolate (Primogel) IP	0.400									
8.	Magnesium Stearate IP	0.200									

Note: # Amlodipine Besilate IP adds after calculation if assay below 99%.
 @ Calculate the materials as per required batch size.

Dispensed by
Stores
Date

Checked by
Production
Date

Verified by
QA
Date

	Prepared By	Checked By	Approved By
Signature			
Date			



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2.2 Weight Verification Sheet:

Balance ID.: _____

S. No.	Ingredients	Spec.	UOM	Std. Quantity (Kg)	A.R No.	Issued Qty.	Checked By (Production)	Verified by (IPQA)
						Gr. Wt.		
MATERIAL FOR GRANULATION:								
1.	Amlodipine Besilate	IP						
2.	Microcrystalline Cellulose PH-112 (MCCP-112)	IP						
MATERIAL FOR LUBRICATION:								
1.	Colloidal Silicon Dioxide (Aerosil)	IP						
2.	Talcum	IP						
3.	Sodium Bicarbonate	IP						
4.	Sodium Lauryl Sulphate (SLS)	IP						
5.	Sodium Starch Glycolate (Primogel)	IP						
6.	Magnesium Stearate	IP						

3.0 GRANULATION PROCESS:

Granulation started on: _____

3.1 Line clearance of Granulation:

Previous product: _____, **Batch No.:** _____

Cleaning done by: _____, **Cleaned On:** _____

S. No.	Instructions	Yes/No/NA	Checked By (Production)	Verified By (IPQA)
1	Ensure that all equipment and utensils are clean and dry and status board affixes (Record as per Table-1).			
2	Is area free from any materials of previous batch?			
3	Whether the container, sieve, scoops and auxiliary items are cleaned.			
4	Check the room temperature. Temp.....°C (NMT 27°C) and Differential pressure Pascal (6 to 10 Pascal).			
5	AHU system under operation or not.			
6	Calibration status of Equipment/instrument complies or not.			
7	Balance calibration status is OK or not.			
8	Whether swab/rinse sample testing report complies or not? (if applicable)			
9	Whether the wall, floor and light in satisfactory condition?			

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EQUIPMENT STATUS CHECKLIST

S. No.	Name of Equipment	Equipment ID. No.	Observation (Should be clean and dried)	Checked (Production)	Verified By (IPQA)
1.	Sifter		Yes/No		
2.	Mass Mixture		Yes/No		
3.	Try Drier		Yes/No		
4.	Multi-mill		Yes/No		
5.	Octagonal Blender		Yes/No		
6.	Balance		Yes/No		
7.	SS Scoop		Yes/No		

3.2 Sifting: Sift separately the following material and collect in poly bags/containers. Check sieve integrity before and after use.

SIFTING OF GRANULATION MATERIALS

Ingredient	Qty. In Kg	Sieve Size (#)	Sieve Integrity		From	To	Done By/ Date	Ckd. By/ Date
			Before Use	After use				
Amlodipine Besilate								
Microcrystalline Cellulose PH-112 (MCCP-112)								

SIFTING OF BLENDING MATERIAL / LUBRICANTS

Ingredient	Qty. In Kg	Sieve Size (#)	Sieve Integrity		From	To	Done By/ Date	Ckd. By / Date
			Before Use	After use				
Colloidal Silicon Dioxide (Aerosil)								
Talcum								
Sodium Bicarbonate								
Sodium Lauryl Sulphate (SLS)								
Sodium Starch Glycolate (Primogel)								
Magnesium Stearate								

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3.3 MANUFACTURING PROCESS:

Step No.	Manufacturing Instruction	Eq. ID.	From	To	Done By/ Date	Ckd. By/ Date
3.3.1	Dry Mixing:					
	Load Amlodipine Besilate (____#Kg) and Microcrystalline Cellulose PH-112 (____Kg) in mass mixture and run at slow speed for 10 minutes.					
3.3.2	Blending & Lubrication:					
	Load Colloidal Silicon Dioxide (____Kg), Talcum Powder (____Kg), Sodium Bicarbonate (____Kg), Sodium Lauryl Sulphate (____Kg) and Sodium Starch Glycolate (____Kg) in blender with dried granules and mix it for 10 minutes.					
	Add Magnesium Stearate (____Kg) in blender and mix for further for 3 minutes.					

3.4 BLEND WEIGHING RECORD:

Container No.	Gross wt. (Kg)	Tare wt. (Kg)	Net wt. (Kg)	Done By/ Date	Ckd By/ Date
1/					
2/					
3/					
4/					
5/					
6/					
7/					
8/					
9/					
10/					
Total					

	Prepared By	Checked By	Approved By
Signature			
Date			



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3.5 SAMPLING OF BLEND:

- After completion of the manufacturing activity batch card shall be checked by production executive and inform IPQA through analytical request after completion of granulation process.

Checked By (Production)

- IPQA shall review batch card and visually inspect of the material for physical Appearance, labeling status, number of container etc. and will collect the sample as per SOP, and shall submit to QC for analysis.

Checked By (IPQA)

- After release from QC, IPQA shall paste the 'APPROVED' label on each container.

3.6 YIELD RECONCILIATION:

A = Theoretical batch size = Kg / tablets

B = Actual quantity of blend = Kg

C = Samples =

D = Yield = $B / A \times 100$

(Note: - Granulation yield NLT 99.00%)

Loss Quantity: _____

Checked by (Production):
Date:

Verified by (QA):
Date:

	Prepared By	Checked By	Approved By
Signature			
Date			



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4.0 COMPRESSION:

Date: _____

Started At: _____

4.1 Line clearance:

Previous product: _____, **Batch No.:** _____

S. No.	Instructions	Observations	Checked (Production)	Verified By (IPQA)
1	Is area free from any materials of previous batch?	Yes/No		
2	Whether area and utensils cleaned?	Yes/No		
3	Whether the compression machine is cleaned and set as per SOP and have "CLEANED" label affixed? Equipment ID No.: _____	Yes/No		
4	Check the room temperature, RH and differential pressure =.....°C (NMT 27°C), RH=..... % (NMT 55%). Differential Pressure.....mm of H ₂ O(0.5to 1.5 mm of H ₂ O)	OK/NOT OK		
5	All the equipment shall be used during process are cleaned.	Yes/No		

4.2 Process:

S. No.	Compression Instruction	Observations	Checked (Production)	Verified By (IPQA)
1.	Collect the approved granules from the granules store for compression.			
2.	Ensure the correct punch set is assembled in the compression machine.			
3.	Ensure the availability and online filling of Batch Document.			
4.	Collect the tablets as per total no. of punches from each side and check them individually for any damages on upper and Lower Surface before continuing the operation of compression machine. Check and Record the observation and details of die & punch in the table A: Die and punch verification			
5.	If compression time is less than one hour, minimum Three observations shall be recorded.			
6.	Ensure that all the data of actual processing are entered in log book of individual equipment/Instrument.			
7.	Collect the compressed tablets in polythene lined container. Weight the containers and record the weights in table given below, label them properly and transfer them to bulk store (Container number should be given as 1/x, 2/x..... where x is the total number of containers			

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Table: A-Die and punch verification

Punch Specification																								
Punch Details	Type	B-Tooling & ___ Stations.																						
	Upper Punches	6.3 mm (Round shape with break line)																	Dies : 6.4 mm					
	Lower Punches	6.3 mm (Round shape plain)																						
Upper Punches	Punch No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Punch No.	24	25	26	27	28	29	30	31	32	33	34	35											
Lower Punches	Punch No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Punch No.	24	25	26	27	28	29	30	31	32	33	34	35											

Checked by (Production): _____

Verified By (IPQA): _____

4.3 IN PROCESS CHECKS:

4.3.1 Specification:

S.No.	Parameters	Requirement	Frequency of Monitoring
1.0	Description	Round shape tablets with one side break line.	At the start of machine
2.0	Weight of 20 tablets	2.30gm \pm 3%	Every 30 Minutes
3.0	Avg. weight	115 mg \pm 7.5%	Every 2 Hours
4.0	Uniformity of weight	115 mg \pm 7.5%	Every 2 Hours
5.0	Thickness	2.60 \pm 0.2 mm	Every 2 Hours
6.0	Hardness	NLT 2.0 Kg/cm ²	Every 2 Hours
7.0	Friability	NMT 1%	Every 2 Hours
8.0	DT	NMT 15 min	Every 2 Hours
9.0	Diameter	6.3 mm \pm 0.2mm	At the start of machine
10.0	Appearance	White or off white color round shape tablets with one side breaks line.	Every 2 Hours
11.0	Temperature	NMT 27°C	Every 2 Hours
12.0	RH	NMT 55%	Every 2 Hours

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Date			



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4.4 In-process observation sheet for production:

Description:										
Diameter of tablets:										
Wt. of 20 Tabs. 2.30gm ± 3%	Date									
	Time									
	LHS									
	RHS									
Wt. of 20 Tabs. 2.30gm ± 3%	Date									
	Time									
	LHS									
	RHS									
Thickness 2.60 ± 0.2 mm	Date									
	Time									
	LHS									
	RHS									
Friability (NMT 1 %)	Date									
	Time									
	LHS									
	RHS									
Hardness (NLT 2.0 Kg/cm²)	LHS									
	RHS									
DT NMT 15 min.	LHS									
	RHS									
Appearance: White or off white color round shape tablets with one side breaks line.	LHS									
	RHS									
Temperature (NMT 27°C)	----									
RH (NMT 55%)	----									
Done By										

Attached additional sheet if required...

	Prepared By	Checked By	Approved By
Signature			
Date			



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WEIGHT VARIATION OF 20 TABLETS

Average Weight of Tablet:		Frequency	Every 2 hours.
----------------------------------	--	------------------	-----------------------

Date:								
Time:								
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								
17.								
18.								
19.								
20.								
Avg. Wt.								
Min wt.								
Max wt.								
Checked by								

Attached additional sheet if required.....

	Prepared By	Checked By	Approved By
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Date			



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4.5 In-process observation sheet for IPQA:

Description:										
Diameter:										
Wt. of 20 Tabs. 2.30gm ± 3%	Date									
	Time									
	LHS									
	RHS									
Wt. of 20 Tabs. 2.30gm ± 3%	Date									
	Time									
	LHS									
	RHS									
Thickness 2.60 ± 0.2 mm	Date									
	Time									
	LHS									
	RHS									
Friability (NMT 1 %)	Date									
	Time									
	LHS									
	RHS									
Hardness (NLT 2.0 Kg/cm²)	LHS									
	RHS									
DT NMT 15 min.	LHS									
	RHS									
Appearance: White or off white color round shape tablets with one side breaks line.	LHS									
	RHS									
Temperature (NMT 27°C)	----									
RH (NMT 55%)	----									
Done By										

Attached additional sheet if required.....

	Prepared By	Checked By	Approved By
Signature			
Date			



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WEIGHT VARIATION OF 20 TABLETS

Average Weight of Tablet:		Frequency	Every 2 hours.
----------------------------------	--	------------------	-----------------------

Date:								
Time:								
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								
17.								
18.								
19.								
20.								
Avg. wt.								
Min wt.								
Max wt.								
Checked by								

Attached additional sheet if required.....

	Prepared By	Checked By	Approved By
Signature			
Date			



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4.6 SAMPLING:

- After completion of the manufacturing activity batch card shall be checked by production executive and inform IPQA through analytical request after completion of compression process.

Checked By (Production)

- IPQA shall review batch card and then visually inspect the bulk for physical appearance, labeling status, number of container etc. and will collect the sample as per SOP, and shall submit to QC for analysis.

Checked By (IPQA)

- After release from QC IPQA shall paste the 'APPROVED' label on each drum.

4.7 VISUAL INSPECTION OF TABLET:

Machine No. _____

Date: _____

Time Duration		Quantity rejected	Done by
From	To		

Total weight of rejected tablets: _____ Good Tablet weight: _____

% Yield: _____

Checked by (Production): _____
(Sign & Date)

Verified by (IPQA): _____
(Sign & Date)

4.8 TABLET WEIGHING RECORD:

Container No.	Gr. wt.	Tare wt.	Net wt.	Container No.	Gr. wt.	Tare wt.	Net wt.
1/				11/			
2/				12/			
3/				13/			
4/				14/			
5/				15/			
6/				16/			
7/				17/			
8/				18/			
9/				19/			
10/				20/			

Total net weight of Tablets:

Checked By(Sign & Date):

	Prepared By	Checked By	Approved By
Signature			
Date			



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BATCH MANUFACTURING RECORD

Product Code:		BMR No.:	
Product Name: Amlodipine Besilate Tablets IP		Generic Name: Amlodipine Besilate Tablets IP	
Document No.:	Effective Date:	Page No.: 18 of 18	
Batch No.:	Batch Size:	Supersedes No.:	

4.9 YIELD RECONCILIATION:

•	Average weight of tablets (A)=	mg	
•	Total weight of compressed tablets (B) =	Kg.	
•	Quantity of compressed tablet in Number (C)=-----X 1000 X1000 =	B	
•	Samples (D)=	A	
•	Yield=----- x 100= Actual batch size		(Yield NLT: 98.50%)

Checked By (Production):	Verified By (IPQA):
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Loss Qty.: _____ **Kg.**

5.0 FINAL REVIEW OF BATCH CARD ON SHOP FLOOR:

Production manager/Designee shall review the batch card will give his comment, if any.

Checked By (Prod. Mgr.)

6.0 ANY DEVIATION:

Deviation No.	Reason for Deviation

Checked By (Prod. Manager)

7.0 HISTORY SHEET:

BMR No.	New BMR No.	Revision No.	Reason of revision
		00	New BMR

	Prepared By	Checked By	Approved By
Signature			
Date			