



PHARMA DEVILS

PRODUCTION DEPARTMENT

BATCH MANUFACTURING RECORD

Product Code:		BMR No.:	
Product Name:		Generic Name: Atenolol Tablets IP 25 mg	
Document No.:	Effective Date:	Page No.: 1 of 19	
Batch No.:	Batch Size:	Supersedes No.:	

Location:	
Block: Production Tablets (PT)	
Label Claim:	Each uncoated tablet contains: Atenolol IP..... 25 mg Excipients..... q.s.
Mfg. Lic. No.:	
Product Lic. No.:	NA
Self-Life:	___ 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

Sr. No.	Ingredients	Spec.	Qty. In mg Per Tablet	Overages %	Std. Qty. for 1 Lac. In Kg
Raw Material for Dry Mixing-					
1.	Atenolol	IP	25.00	----	2.50#
2.	Microcrystalline Cellulose PH 112 (Avicel PH-112)	IP	128.50	----	12.85
3.	Croscarmellose Sodium (Ac-Di-Sol)	IP	10.00	----	1.00
4.	Magnesium Stearate	IP	3.00	----	0.30
5.	Purified Talcum	IP	1.50	----	0.15
6.	Colloidal Silicon Dioxide (Aerosil)	IP	4.00	----	0.40
7.	Croscarmellose Sodium (Ac-Di-Sol)	IP	15.00	----	1.50
Weight of Uncoated Tablets			187.00 mg		18.70 Kg

Note: # Atenolol adds after calculation if assay below 99%.

	Prepared By	Checked By	Approved By
Signature			
Date			



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CALCULATION SHEET

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

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

A.R. No. of Atenolol 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 **Atenolol 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.

Sr. 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 to 10 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)

Sr. 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.	Atenolol IP	2.50#									
Inactive Ingredients-											
2.	Microcrystalline Cellulose PH 112 (Avicel PH112) IP	12.85									
3.	Croscarmellose Sodium (Ac-Di-Sol) IP	1.00									
4.	Magnesium Stearate IP	0.30									
5.	Purified Talcum IP	0.15									
6.	Colloidal Silicon Dioxide (Aerosil) IP	0.40									
7.	Croscarmellose Sodium (Ac-Di-Sol) IP	1.50									

Note: # Atenolol 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

Page No. 6 of 19 store copy

	Prepared By	Checked By	Approved By
Signature			
Date			



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BILL OF RAW MATERIALS

(STORE COPY)

Sr. 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.	Atenolol IP	2.50#									
Inactive Ingredients-											
2.	Microcrystalline Cellulose PH 112 (Avicel PH112) IP	12.85									
3.	Croscarmellose Sodium (Ac-Di-Sol) IP	1.00									
4.	Magnesium Stearate IP	0.30									
5.	Purified Talcum IP	0.15									
6.	Colloidal Silicon Dioxide (Aerosil) IP	0.40									
7.	Croscarmellose Sodium (Ac-Di-Sol) IP	1.50									

Note: # Atenolol 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: _____

Sr. No.	Ingredients	Spec.	UOM	Std. Quantity (Kg)	A.R. No.	Issued Qty			Checked By (Production)	Verified by (IPQA)
						Gr. wt.	Tare wt.	Net wt.		
MATERIAL FOR LUBRICATION:										
1.	Atenolol	IP								
2.	Microcrystalline Cellulose (Avicel PH112)	IP								
3.	Croscarmellose Sodium (Ac-Di-Sol)	IP								
4.	Magnesium Stearate	IP								
5.	Purified Talcum	IP								
6.	Colloidal Silicon Dioxide (Aerosil)	IP								
7.	Croscarmellose Sodium (Ac-Di-Sol)	IP								

	Prepared By	Checked By	Approved By
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3.0 GRANULATION PROCESS:

Date: _____

Granulation started at: _____

3.1 Line clearance of Granulation:

Previous product: _____

Batch No.: _____

Cleaning done by: _____

Cleaned On: _____

Sr. 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?			

EQUIPMENT STATUS CHECKLIST

Sr. 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.	Tray Drier		Yes/No		
4.	Blender		Yes/No		
5.	Balance		Yes/No		
6.	S.S Scoop		Yes/No		

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

SIFTING OF LUBRICANTS MATERIAL

Ingredient	Qty. In Kg	Sieve Size (#)	Sieve Integrity		From	To	Done By/ Date	Ckd. By/ Date
			Before Use	After use				
Atenolol IP								
Microcrystalline Cellulose (Avicel PH112) IP								
Croscarmellose Sodium (Ac-Di-Sol) IP								
Magnesium Stearate IP								
Purified Talcum IP								
Colloidal Silicon Dioxide (Aerosil) IP								
Croscarmellose Sodium (Ac-Di-Sol) IP								

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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	Lubrication:					
	Add Atenolol (___#Kg), Microcrystalline Cellulose PH112 (___Kg), Croscarmellose Sodium (___Kg), Purified Talcum (___Kg), Colloidal Silicon Dioxide (Aerosil) (___Kg) and Croscarmellose Sodium (Ac-Di-Sol) (___Kg) in blender and mix it for 20 minutes.					
	Add Magnesium Stearate (___Kg) in blender and mix for further for 5 minutes.					

3.4 GRANULE 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.

Verified 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.:** _____

Sr. 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.....Pascal (6 to 10 Pascal)	OK/NOT OK		
5	All the equipment shall be used during process are cleaned.	Yes/No		

4.2 Process:

Sr. 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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Signature			
Date			



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Table: A-Die and punch verification

Punch Specification

Punch Details	Type		B-Tooling & 35 Stations.																						
	Upper Punches			Diameter : 8.0 mm (Round shape with break line)															Dies : 8.1 mm						
	Lower Punches			Diameter : 8.0 mm (Round shape with 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:

Sr. 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	3.74 gm \pm 3%	Every 30 Minutes
3.0	Avg. weight	187 mg \pm 5%	Every 2 Hours
4.0	Uniformity of weight	187 mg \pm 7.5%	Every 2 Hours
5.0	Thickness	2.80 \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	8.0 mm \pm 0.2 mm	At the start of machine
10.0	Temperature	NMT 27°C	Every 2 Hours
11.0	RH	NMT 55%	Every 2 Hours

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4.4 In-process observation sheet for production:

Description:										
Diameter:										
Wt. of 20 Tabs. 3.74 gm \pm 3%	Date									
	Time									
	LHS									
	RHS									
Wt. of 20 Tabs. 3.74 gm \pm 3%	Date									
	Time									
	LHS									
	RHS									
Thickness 2.80 \pm 0.2mm)	Date									
	Time									
	LHS									
	RHS									
Friability (NMT 1 %)	Date									
	Time									
	LHS									
	RHS									
Hardness (NLT 2.0 Kg/cm ²)	LHS									
	RHS									
DT NMT 15 min	LHS									
	RHS									
Appearance: White or off white colour round shape tablets with one side break 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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4.5 In-process observation sheet for IPQA:

Description:										
Diameter:										
Wt. of 20 Tabs. 3.74 gm ± 3%	Date									
	Time									
	LHS									
	RHS									
Wt. of 20 Tabs. 3.74 gm ± 3%	Date									
	Time									
	LHS									
	RHS									
Thickness 2.80 ±0.2mm)	Date									
	Time									
	LHS									
	RHS									
Friability (NMT 1 %)	Date									
	Time									
	LHS									
	RHS									
Hardness (NLT 2.0 Kg/cm ²)	LHS									
	RHS									
DT NMT 15 min	LHS									
	RHS									
Appearance: White or off white colour round shape tablets with one side break 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 TABLETS WEIGHING RECORD:

Container No.	Gross wt.	Tare wt.	Net wt.	Container No.	Gross 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):							

4.7 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.

Verified By (IPQA)

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

4.8 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): _____, **Verified by (IPQA):** _____
(Sign & Date) (Sign & Date)

	Prepared By	Checked By	Approved By
Signature			
Date			



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4.9 YIELD RECONCILIATION:

•	Average weight of tablets (A)=	mg
•	Total weight of compressed tablets (B) =	Kg.
•	$\frac{B}{\text{Quantity of compressed tablet in Number (C)} \times 1000 \times 1000} =$ $\frac{A}{\text{Actual batch size}}$	
•	Samples (D)=	
•	$\frac{C + D}{\text{Actual batch size}} \times 100 =$ (Yield NLT: 98.50%)	
Checked By (Production):		Verified By (IPQA):

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			