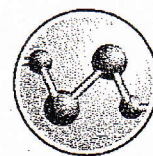
**AMRI**

AMRI India Pvt. Ltd.,
Plot No.: G-1/1, 1/2, MIDC Area, Waluj, Aurangabad - 431 136, Maharashtra, India,
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QUALITY CONTROL DEPARTMENT			
CERTIFICATE OF ANALYSIS			
Type: Dispatch		Page: 1 of 2	
Product Name: ATENOLOL		Batch Number: AM20112189	
Compendia: EP		Quantity: 250 Kg.	
Mfg. Date: OCT -2012		Exp. Date: SEP-2017	
Date of Sampling: 29/10/2012		Date of Analysis: 29/10/2012	
Date of Release: 31/10/2012		A.R Number: FPA/12/240	
Storage Condition :- Protect from light and store at temperature not exceeding 25°C			
S.No.	Test	Results	Specification
1.	Description	Almost white powder	A white or almost white powder
2.	Solubility	Complies	Soluble in anhydrous Ethanol, sparingly soluble in water, slightly soluble in methylene chloride. Soluble in Ethanol.
3.	Identification		First Identification C
	A) By Melting Point	154°C	Second Identification A, B, D. 152°C to 155°C
	B) By UV	1.16	1.15 to 1.20
	C) By IR	Complies	Should be comparable with Atenolol working standard.
	D) By TLC	Complies	Should be comparable with Atenolol working standard.
4.	Appearance of solution	1.0% w/v solution in water is clear & transparent	1.0%w/v solution in water should be clear & not more intensely colored than degree 6 of the range of reference solutions of the most appropriate color.
5.	Optical Rotation	0°	+0.10° to - 0.10°
6.	Chlorides	Less than 0.1%	NMT 0.1%
Prepared By /Date		Checked By / Date	Reviewed By / Date
[Signature] 09/11/12		[Signature] 09/11/2012	[Signature] 09/11/2012
Quality Control		Quality Control	Quality Assurance
		Quality Assurance	Quality Assurance

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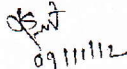

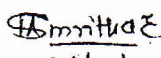
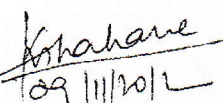
**QUALITY CONTROL DEPARTMENT
CERTIFICATE OF ANALYSIS**

Type: Dispatch	Page: 2 of 2
Product Name: ATENOLOL	Batch Number: AM20112189
Compendia: EP	Quantity: 250 Kg.
Mfg. Date: OCT-2012	Exp. Date: SEP-2017
Date of Sampling: 29/10/2012	Date of Analysis: 29/10/2012
Date of Release: 31/10/2012	A.R Number: FPA/12/240

S.No.	Test	Results	Specification
7.	Related Substances		
	Impurity B	0.09%	NMT 0.20%
	Impurities F	0.09%	NMT 0.15%
	Impurities G	0.05%	NMT 0.15%
	Impurities I	Less than 0.05%	NMT 0.15%
	Unspecified Impurities	Less than 0.05%	NMT 0.10%
	Total Impurity	0.34 %	NMT 0.5%
8.	Sulphated Ash	0.05%	NMT 0.1%
9.	Loss on drying	0.27%	NMT 0.5% w/w
10.	Assay (ODB) Potentiometer	99.46%	99.0% to 101.0% w/w
11.	Foreign Particle	No black Particles observed on filter paper	NMT 5 black particles observed on filter paper
12.	Additional Tests		
1.	* Bulk Density		
	1) Untapped	0.26 gm/mL	Informative
	2) Tapped (50 strokes)	0.36 gm/mL	
2.	Particle Size	100% sample passes through 40 mesh	100% passing through 40 mesh.

*Bulk density determined as per in-house requirement.

• **Remarks:-** The product Complies as per EP specification
We certify that the material manufactured in our factory, address- AMRI India Pvt. Ltd. G-1/1, MIDC, Aurangabad is as per process described in the certificate of suitability. We also certify that the quality of the material complies according to the certificate of suitability (No: R1-CEP 1999-122-Rev 04) of the monographs of the European Pharmacopoeia.

Prepared By /Date	Checked By / Date	Reviewed By / Date	Approved By / Date
 09/11/12	 09/11/12	 09/11/2012	 09/11/2012
Quality Control	Quality Control	Quality Assurance	Quality Assurance