



AMRI India Pvt. Ltd. G-1/1, 1/2, MIDC Area, Waluj, Aurangabad - 431 136, India.
t + 91-240-2554006 / 2564456, www.amriglobal.com

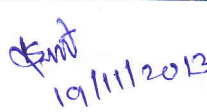
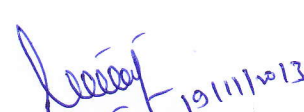
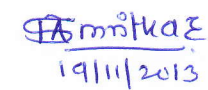
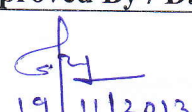
QUALITY CONTROL DEPARTMENT

CERTIFICATE OF ANALYSIS

Type: Dispatch	Page: 1 of 2
Product Name: ATENOLOL	Batch Number: AM20113104
Compendia: EP	Quantity: 250 Kg.
Mfg. Date: OCT -2013	Retest Date: SEP-2018
Date of Sampling: 14/10/2013	Date of Analysis: 14/10/2013
Date of Release: 18/10/2013	A.R Number: FPA/13/115

Storage Condition :- Protect from light and store at temperature not exceeding 25°C

S.No.	Test	Results	Specification
1.	Appearance	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.
3.	Identification A) By Melting Point	154°C	First Identification 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	Approved By / Date
 19/11/2013	 19/11/2013	 19/11/2013	 19/11/2013
Quality Control	Quality Control	Quality Assurance	Quality Assurance



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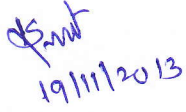
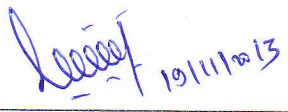
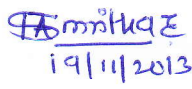
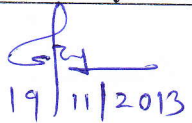
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S.No.	Test	Results	Specification
7.	Related Substances		
	Impurity B	0.08%	NMT 0.20%
	Impurities F	BDRL	NMT 0.15%
	Impurities G	BDRL	NMT 0.15%
	Impurities I	0.05%	NMT 0.15%
	Unspecified Impurities	0.06%	NMT 0.10%
	Total Impurity	0.27 %	NMT 0.5%
8.	Sulphated Ash	0.03%	NMT 0.1%
9.	Loss on drying	0.30%	NMT 0.5% w/w
10.	Assay (ODB) by Potentiometer	99.34%	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		
12.1	Bulk Density		
	1) Untapped	0.23 gm/mL	Informative
	2) Tapped (50 strokes)	0.31 gm/mL	
12.2	Particle Size	100% sample passes through 40 mesh	100% passing through 40 mesh.

*Additional test 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.

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