
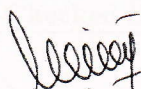
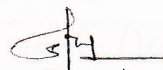
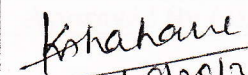
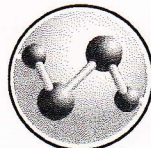




QUALITY CONTROL DEPARTMENT			
CERTIFICATE OF ANALYSIS			
Type: Dispatch	Page: 1 of 2		
Product Name: ATENOLOL	Batch Number: AM20113066		
Compendia: EP	Quantity: 250 Kg.		
Mfg. Date: APR -2013	Retest Date: MAR-2018		
Date of Sampling: 29/04/2013	Date of Analysis: 29/04/2013		
Date of Release: 30/04/2013	A.R Number: FPA/13/074		
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	152°C	First Identification C Second Identification A, B, D. 152°C to 155°C
	B) By UV	1.19	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
 27/08/2013		 27/08/2013	 27/08/2013
Approved By / Date		 28/08/2013	
Quality Control	Quality Control	Quality Assurance	Quality Assurance





# AMRI<sup>®</sup>GLOBAL

## SMARTSOURCING<sup>™</sup>

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t: +91-240-2554006 / 2564456, www.amriglobal.com

### QUALITY CONTROL DEPARTMENT

### CERTIFICATE OF ANALYSIS


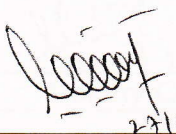
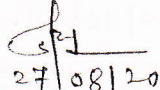
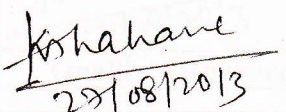
Type: Dispatch	Page: 2 of 2
Product Name: ATENOLOL	Batch Number: AM20113066
Compendia: EP	Quantity: 250 Kg.
Mfg. Date: APR -2013	Retest Date: MAR-2018
Date of Sampling: 29/04/2013	Date of Analysis: 29/04/2013
Date of Release: 30/04/2013	A.R Number: FPA/13/074

S.No.	Test	Results	Specification
7.	Related Substances Impurity B	0.08%	NMT 0.20%
	Impurities F	0.06%	NMT 0.15%
	Impurities G	Less than 0.05%	NMT 0.15%
	Impurities I	0.07%	NMT 0.15%
	Unspecified Impurities	Less than 0.05%	NMT 0.10%
	Total Impurity	0.29 %	NMT 0.5%
8.	Sulphated Ash	0.06%	NMT 0.1%
9.	Loss on drying	0.30%	NMT 0.5% w/w
10.	Assay (ODB) by Potentiometer	99.18%	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 2) Tapped (50 strokes)	0.26 gm/mL 0.37 gm/mL	Informative
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.

Prepared By /Date	Checked By / Date	Reviewed By / Date	Approved By / Date
 27/08/2013	 27/08/2013	 27/08/2013	 28/08/2013
Quality Control	Quality Control	Quality Assurance	Quality Assurance