

AMRI India Private Limited, Plot No. 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	<b>Page:</b> 1 of 2		
Product Name: ATENOLOL	Batch Number: AM20114037		
Compendia: EP	Quantity: 225 Kg.		
Mfg. Date: MAY -2014	Retest Date: APR-2019		
Date of Sampling: 24/05/2014	Date of Analysis: 24/05/2014		
Date of Release: 30/05/2014	A.R Number: FPA/14/042		

**Storage Condition**: Preserve in well-closed, light resistant container. Store at 25°C, excursions permitted between 15°C to 30°C

Sr.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 152.9 °C		First Identification C Second Identification A, B, D. 152°C to 155°C	
	B) By UV	1.17	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 Rotations	0°	$+0.10^{\circ}$ to $-0.10^{\circ}$	
6.	Chloride	Less than 0.1%	NMT 0.1%	

Prepared By /Date	Checked By / Date	Reviewed By / Date	Approved By,/ Date
1410612014	Joseph 1410 612014	14/06/2014	SMobile
Quality Control	Quality Control	Quality Assurance	Quality Assurance



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7.	Related Substances By HPLC			
	Impurity B	0.15 %	NMT 0.20 %	
	Impurity F	BDRL	NMT 0.15 %	
	Impurity G	0.12 %	NMT 0.15 %	
	Impurity I	0.11 %	NMT 0.15 %	
	Unspecified Impurity	0.07 %	NMT 0.10 %	
	Total Impurities	0.42 %	NMT 0.5 %	
8.	Sulphated Ash	0.05 %	NMT 0.1 %	
9.	Loss on drying	0.24 % w/w	NMT 0.5% w/w	
10.	Assay (ODB) by Potentiometer	99.99 % w/w	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	0.24	Informative	
	1) Untapped 2) Tapped (50 strokes)	0.24 gm/mL 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.

• BDRL – Below Disregard Limit (Disregard Limit is 0.05% as per EP 7.0)

• 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
Emt 14/106/2014	Joseph Milograph	14/06/2014	8/2/06/10
Quality Control	Quality Control	Quality Assurance	Quality Assurance