

AMRI India Private Limited

Factory / Office : Plot No. G-1/1, 1/2, Near MIDC Water Tank, MIDC Area, Waluj, Aurangabad, India -431 136 t : +91-240-2554006 / 2564456, www.amriglobal.com

QUALITY	CONTROL DEPARTMENT	
CERT	IFICATE OF ANALYSIS	THE COLUMN TWO IS NOT THE PERSON.
Type: Dispatch	Page: 1 of 2	
Product Name: ATENOLOL	Batch Number: AM20114050	
Compendia: EP	Quantity: 225 Kg.	
Mfg. Date: MAY-2014	Retest Date: APR-2019	
Date of Sampling: 13/06/2014	Date of Analysis: 13/06/2014	***************************************
Date of Release: 18/06/2014	A.R Number: FPA/14/058	-

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 ethan sparingly soluble in water, slight soluble in methylene chloride.	
3.	Identification A) By Melting Point	153.8 °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 coloured than degree 6 of the range of reference solutions of the most appropriate colour.	
5.	Optical Rotations	0°	+0.10° to -0.10°	
6.	Chloride	Less than 0.1%	NMT 0.1%	

Prepared By /Date	Checked By / Date	Reviewed By / Date	Approved By / Date
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Quality Control	Quality Control	Quality Assurance	Quality Assurance



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Sr.No.	Test	Results	Specification
7.	Related Substances By HPLC		
	Impurity B	0.12 %	NMT 0.20%
	Impurity F	BDRL	NMT 0.15%
	Impurity G	0.08 %	NMT 0.15%
	Impurity I	0.07 %	NMT 0.15%
	Unspecified Impurity	0.08 %	NMT 0.10%
	Total Impurities	0.33 %	NMT 0.5%
8.	Sulphated Ash	0.06 %	NMT 0.1%
9.	Loss on drying	0.22 % w/w	NMT 0.5% w/w
10.	Assay (ODB) by Potentiometer	99.72 % 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	and the second s	***************************************
12.1	Bulk Density 1) Untapped 2) Tapped (50 strokes)	0.21 gm/mL 0.31 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
- BDRL Below Disregard Limit (Disregard Limit is 0.05% as per EP 7.0)
- 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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