

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

NMT 0.1%

		QUALITY CONTR			
TD.	D° 1	CERTIFICATE			
	Dispatch		Page: 1 o		
	ict Name: ATENOLOL	3	Batch Nu	mber: AM20113103	
	endia: EP	1.11 Opportunities Maria Advantopy (2011) (1.11 Constitution of the Constitution of th	Quantity: 250 Kg.		
	Date: SEP -2013		Retest Date: AUG-2018		
	of Sampling: 11/10/2013		Date of Analysis: 11/10/2013		
Date o	of Release: 15/10/2013		A.R Number: FPA/13/114		
	ge Condition :- Protect fi	com light and store at	temperatur	e not exceeding 25°C	
S.No.	Test	Results		Specification	
1.	Appearance	Almost white power	ler	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	1.17	Company of the Compan	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 i clear & transparent	n water is	1.0%w/v solution in water should be clear & not more intensely colored than degree 6 of the range of reference	
5.	Optical Rotation	0°		solutions of the most appropriate color. +0.10° to -0.10°	

Prepared By /Date	Checked By / Date	Reviewed By / Date	wed By / Date Approved By / Da	
45mt 19/11/2013	Jacou / 1311112013	19/11/2013	19/11/2013	
Quality Control	Quality Control	Quality Assurance	Quality Assurance	

Less than 0.1%

Chlorides

6.



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QUALITY	CONTROL DEPARTMENT
CERT	IFICATE OF ANALYSIS
Type: Dispatch	Page: 2 of 2
Product Name: ATENOLOL	Batch Number: AM20113103
Compendia: EP	Quantity: 250 Kg.
Mfg. Date: SEP -2013	Retest Date: AUG-2018
Date of Sampling: 11/10/2013	Date of Analysis: 11/10/2013
Date of Release: 15/10/2013	A.R Number: FPA/13/114

S.No.	Test	Results	Specification	
7.	Related Substances			
	Impurity B	0.10%	NMT 0.20%	
	Impurities F	BDRL	NMT 0.15%	
	Impurities G	0.05%	NMT 0.15%	
	Impurities I	0.06%	NMT 0.15%	
	Unspecified Impurities	0.08%	NMT 0.10%	
	Total Impurity	0.33 %	NMT 0.5%	
8.	Sulphated Ash	0.08%	NMT 0.1%	
9.	Loss on drying	0.32%	NMT 0.5% w/w	
10.	Assay (ODB) by Potentiometer	99.62%	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	0.24 gm/mL	Informative	
	2) Tapped (50 strokes)	0.31 gm/mL	9	
12.2	Particle Size	100% sample passes through 40 mesh	100% passing through 40 mesh.	

<sup>\*</sup>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
19/11/2013	Jugart	19/11/2013	19/11/2013
<b>Quality Control</b>	Quality Control	Quality Assurance	Quality Assurance