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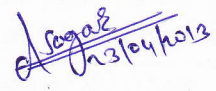
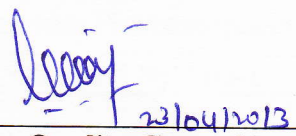
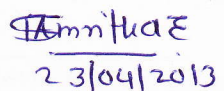
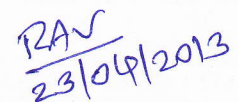
AMRI India Pvt. Ltd.,
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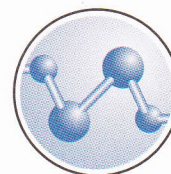
QUALITY CONTROL DEPARTMENT**CERTIFICATE OF ANALYSIS**

Type: Dispatch	Page: 1 of 2
Product Name: ATENOLOL	Batch Number: AM20113030
Compendia: EP	Quantity: 175 Kg.
Mfg. Date: FEB -2013	Retest Date: JAN-2018
Date of Sampling: 23/02/2013	Date of Analysis: 23/02/2013
Date of Release: 02/03/2013	A.R Number: FPA/13/038

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

S.No.	Test	Results	Specification
1.	Description	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	1.15	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
 J. Sagar 23/04/2013	 J. Sagar 23/04/2013	 J. Sagar 23/04/2013	 J. Sagar 23/04/2013
Quality Control	Quality Control	Quality Assurance	Quality Assurance

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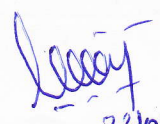
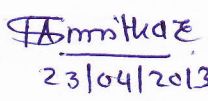
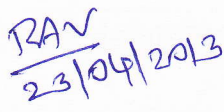
Type: Dispatch	Page: 2 of 2
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S.No.	Test	Results	Specification
7.	Related Substances Impurity B Impurities F Impurities G Impurities I Unspecified Impurities Total Impurity	0.05% 0.05% Less than 0.05% Less than 0.05% 0.06% 0.24 %	NMT 0.20% NMT 0.15% NMT 0.15% NMT 0.15% NMT 0.10% NMT 0.5%
8.	Sulphated Ash	0.07%	NMT 0.1%
9.	Loss on drying	0.31%	NMT 0.5% w/w
10.	Assay (ODB) Potentiometer	99.57%	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		
1.	* Bulk Density 1) Untapped 2) Tapped (50 strokes)	0.27 gm/mL 0.37 gm/mL	Informative
2.	Particle Size	100% sample passes through 40 mesh	100% passing through 40 mesh.

*Bulk density 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
 23/04/2013	 23/04/2013	 23/04/2013	 23/04/2013
Quality Control	Quality Control	Quality Assurance	Quality Assurance