

**Pell Tech Health Care Pvt Ltd**

Plot No. 20B, Tansa Farm Estate, Bhiwandi-Wada Road, Wada, Thane, Maharashtra - 421312

CERTIFICATE OF ANALYSIS

Material Name	:	Atenolol USP			
Batch No.	:	ALP/P1803027	AR Number	:	2018-19/QCG/RMR/00075
GRN No	:	RM-00040	Received Qty.	:	200.000 Kg
Manufacture Name	:	Kopran Research Laboratories Ltd	Received Date	:	21/04/2018
Supplier Name	:	Kopran Research Laboratories Ltd	Sample Qty.	:	0.050 Kg
Mfg. Date	:	Mar-2018	Sampling Date	:	23/04/2018
Exp Date	:	Feb-2023	Rejected Qty.	:	0.000 Kg
Retest Date	:	29/04/2019	Released Date	:	30/04/2018

SR. No.	Test	Specification	Observation
1	Description	White or practically white, odorless powder.	White powder
2	Solubility	Freely soluble in methanol; sparingly soluble in alcohol; slightly soluble in water and in isopropanol.	Freely soluble in methanol; sparingly soluble in alcohol; slightly soluble in water and in isopropanol. Freely soluble in methanol; sparingly soluble in alcohol; slightly soluble in water and in isopropanol.
3	Identification A	An identification test for Atenolol is confirmed by Infra red Absorption	An identification test for Atenolol is confirmed by Infra red Absorption An identification test for Atenolol is confirmed by Infra red Absorption
4	Identification B	An identification test for Atenolol is confirmed by UV Absorption	An identification test for Atenolol is confirmed by UV Absorption
5	Residue on ignition	Not more than 0.2%	0.15 %
6	Chlorides and sulphates	Shows no more turbidity with 1 mL of silver nitrate TS than 1.4 mL of 0.020 N hydrochloric acid in 100 mL of 0.15 N nitric acid (0.1%)	No more turbidity with 1 mL of silver nitrate TS nitric acid (0.1%)
7	Melting range	152° - 156.5°	154°
8	Loss on drying	Not more than 0.5% of its weight.	0.18%
9	Organic impurities Individual impurity Total impurities	Not more than 0.25% Not more than 0.5%	0.111% 0.177%
10	Assay (on dried basis)	Not less than 98.0% and Not more than 102.0% of $C_{14}H_{22}N_2O_3$ calculated on the dried basis.	100.17 %

Conclusion : The conclusion of the undersigned about the above mentioned Raw Material complies as per United State Pharmacopoeia Laid down specification & is of a standard quality mentioned there in.

Prepared By	Checked By	Approved By
Date 30/04/2018	Date 30/04/2018	Date 30/04/2018



Kopran

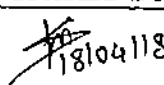
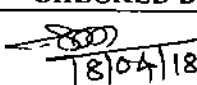
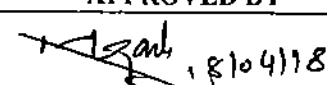
Certificate of Analysis ATENOLOL USP

BATCH No. : ALP/P1803027	ANALYTICAL REPORT No. FPPA/180356	MFG. DATE : MAR.2018
DISPATCH QTY. : 200.00 Kg		EXP. DATE : FEB.2023

SR. No.	TESTS	RESULTS	SPECIFICATIONS
1	DESCRIPTION	A white powder	White or practically white odourless powder
2	SOLUBILITY	Complies	Freely soluble in methanol, Sparingly soluble in alcohol slightly soluble in water & isopropanol.
3	IDENTIFICATION	1. IR : Complies 2. UV abs. : Complies	1. To comply 2. Between 1.15 to 1.20
4	MELTING RANGE	152.4 to 153.3°C	Between 152 to 156.5°C
5	LOSS ON DRYING	0.29 %	NMT 0.5 % w/w
6	RESIDUE ON IGNITION	0.06 %	NMT 0.2 % w/w
7	CHLORIDE & SULFATE	Less than 0.1 %	NMT 0.1 % w/w
8	RELATED SUBSTANCES 1) Ind. impurity 2) Total impurities	0.14 % 0.30 %	NMT 0.25 % NMT 0.50 %
9	ASSAY ON DRIED BASIS (By HPLC)	99.7 %	NLT 98.0 % and NMT 102.0 % of $C_{14}H_{22}N_2O_3$

THIS PRODUCT CONFORMS TO USP

DATE: 18/04/2018

PREPARED BY	CHECKED BY	APPROVED BY
 18/04/18	 18/04/18	 18/04/18
S. M. Mhatre	M. G. Sutar	Mangesh C. Parte
Officer - QA	Sr. Manager - QC	Manager - QA

C. O. A. issued to: M/s. Pell Tech Healthcare P. Ltd



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