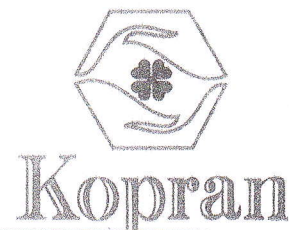




Certificate Of Analysis  
**ATENOLOL EP**



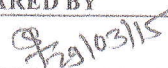
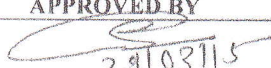
|                           |                                      |                      |
|---------------------------|--------------------------------------|----------------------|
| BATCH No. : ALU/P1502008  | ANALYTICAL REPORT No.<br>FPPA/150231 | MFG. DATE : FEB.2015 |
| DISPATCH QTY. : 625.00 Kg |                                      | EXP. DATE : JAN.2020 |

| SR. No. | TESTS                                                                                                                                    | RESULTS                                                                            | SPECIFICATIONS                                                                                                                     |
|---------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1       | APPEARANCE                                                                                                                               | A white powder                                                                     | White or almost white powder                                                                                                       |
| 2       | SOLUBILITY                                                                                                                               | Complies                                                                           | Sparingly soluble in water, soluble in ethanol, slightly soluble in methylene chloride.                                            |
| 3       | IDENTIFICATION                                                                                                                           | A. M. P. : 153.4°C<br>B. UV abs. R : 1.18<br>C. IR : Complies<br>D. TLC : Complies | A) Melting range: 152 to 155°C<br>B) By UV (Ratio of absorbance between 1.15 to 1.20)<br>C) By I.R.<br>D) By TLC                   |
| 4       | APPEARANCE OF SOLUTION                                                                                                                   | Clear and not more intensely coloured than degree 6                                | Solution S is clear & not more intensely coloured than degree 6 of the range of reference solutions of the most appropriate colour |
| 5       | OPTICAL ROTATION at 20°C                                                                                                                 | -0.0331 °                                                                          | +0.10° TO -0.10°                                                                                                                   |
| 6       | RELATED SUBSTANCES<br>1) Impurity B<br>2) Impurity F<br>3) Impurity G<br>4) Impurity I<br>5) Unspecified Impurity<br>6) Total Impurities | 0.13 %<br>0.07 %<br>0.06 %<br>Not Detected<br>0.05 %<br>0.31 %                     | NMT 0.2%w/w<br>NMT 0.15%w/w<br>NMT 0.15%w/w<br>NMT 0.15%w/w<br>NMT 0.10%w/w<br>NMT 0.5%w/w                                         |
| 7       | CHLORIDE                                                                                                                                 | Complies                                                                           | NMT 0.1 % w/w                                                                                                                      |
| 8       | SULPHATED ASH                                                                                                                            | 0.07 %                                                                             | NMT 0.1 % w/w                                                                                                                      |
| 9       | LOSS ON DRYING                                                                                                                           | 0.25 %                                                                             | NMT 0.5 % w/w                                                                                                                      |
| 10      | ASSAY ON DRIED BASIS                                                                                                                     | 99.96 %                                                                            | 99.0 % to 101.0 % of C <sub>14</sub> H <sub>22</sub> N <sub>2</sub> O <sub>3</sub>                                                 |
| 11      | ADDITIONAL TESTS                                                                                                                         |                                                                                    |                                                                                                                                    |
| 11.1    | BULK DENSITY<br>1. Tapped<br>2. Untapped                                                                                                 | 0.50 g/cc<br>0.36 g/cc                                                             | Informative<br>Informative                                                                                                         |
| 11.2    | PARTICLE SIZE BY (Sieve Test)                                                                                                            | Complies                                                                           | 100% Below 375µm                                                                                                                   |

**THIS PRODUCT CONFORMS TO EP**

**DATE: 29/03/2015**

This batch is in conformity with Pharm Eur & provisions of certificate of suitability RI-CEP 1998-017-Rev 03  
Granted to Kopran.

| PREPARED BY                                                                                                         | CHECKED BY                                                                                                               | APPROVED BY                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <br>V.T. Sakunde<br>Officer - QA | <br>M. G. Sutar<br>Asst. Manager - QC | <br>P. M. Sheth<br>Sr. Manager - QC |

C. O. A. issued to: M/s. METAPHARMACEUTICAL IND SL, SPAIN.



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