



# Certificate of analysis

Product name: **Bimatoprost**

Cas number: 155206-00-1

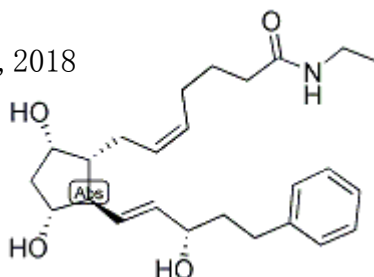
Molecular Formula: C<sub>25</sub>H<sub>37</sub>NO<sub>4</sub>

Molecular Weight: 415.56

Date of production: Feb. 07, 2018

Batch No: 20180207

Exp Date: Feb. 06, 2020



Chemical structure:

| Items                      | Specifications  | Results                 |
|----------------------------|---|-------------------------|
| <b>Description</b>         | white powder  | white powder            |
| <b>Water</b>               | < 1.0 %   | 0.13%                   |
| <b>Solubility</b>          | Very soluble in ethanol, methanol, sparingly to slightly soluble in water                                   | complies                |
| <b>Identification</b>      | By HPLC HNMR  | complies                |
| <b>Residue on Ignition</b> | ≤ 0.1%  | 0.16%                   |
| <b>Heavy metals</b>        | ≤ 10 ppm  | complies                |
| <b>Optical rotation</b>    | +33 ~ +37 (C=2 CH <sub>3</sub> OH)  | +35.6 °                 |
| <b>Related substances</b>  | 15-keto and 5,6-trans Bimatoprost:<br>≤ 0.10%<br>Any other impurity ≤ 0.1%<br>Total other impurities ≤ 1.0% | 0.04%<br>0.06%<br>0.10% |
| <b>Residue Solvent</b>     | Ethyl acetate ≤ 0.5%  | 0.12%                   |
| <b>Purity by HPLC</b>      | ≥ 99%   | 99.9%                   |

**Conclusion: It complies with the Enterprise Standard.**

Analyst: Zhao

Checker: Liu

Q.C Director: Fang F