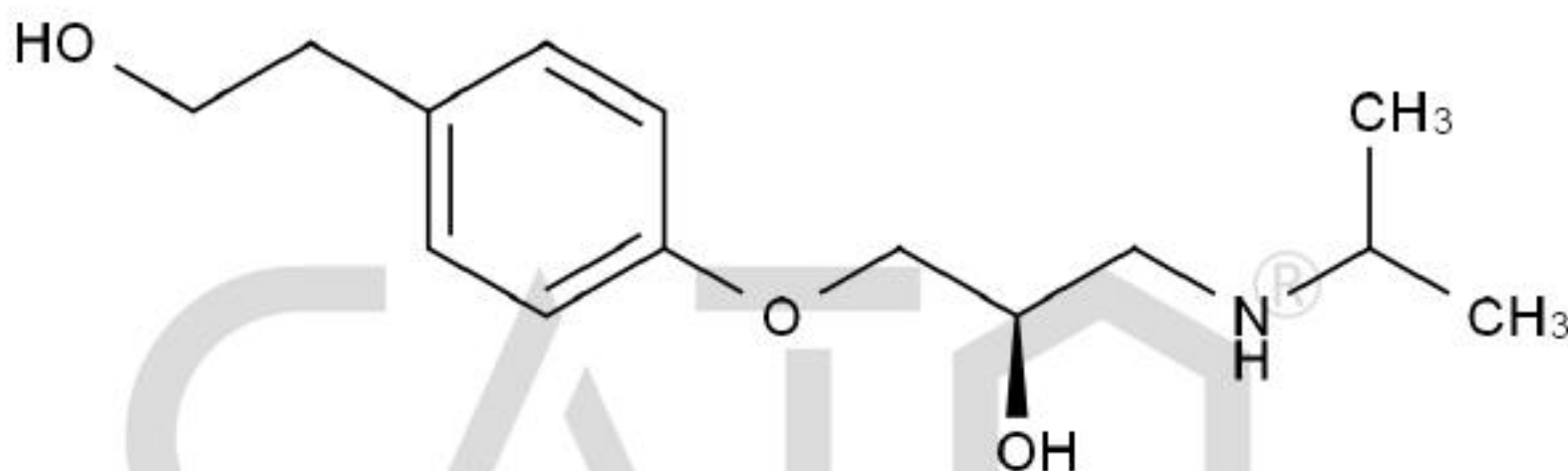


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                                           |                          |                                           |
|---------------------------|---------------------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Metoprolol Impurity 10                                                    | <b>Catalogue Number:</b> | C4X-155910                                |
| <b>Synonyms:</b>          | Betaxolol Hydrochloride EP Impurity B; Metoprolol Succinate EP Impurity H | <b>Lot Number:</b>       | 0821-SA-7070                              |
| <b>CAS Number:</b>        | 131564-70-0                                                               | <b>Expiry Date:</b>      | Aug 20, 27                                |
| <b>Molecular Formula:</b> | C <sub>14</sub> H <sub>23</sub> NO <sub>3</sub>                           | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 253.34                                                                    |                          |                                           |

Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 97.447%   |

Signature:

Prepared by:

*Lisa*

Reviewed by:

*Yuki*

Approved by General Manager:

*David*

Date: Aug 21, 23

Date: Aug 21, 23

Date: Aug 21, 23



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## Directions:

- 1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
- 2. Minimum sample size: 1mg is recommended as the minimum sample size.*
- 3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
- 4. Instructions for handling and correct use: Handling in a well-ventilated place.*

## Document Version:

| Revision No. | Date       | Reason for Revision |
|--------------|------------|---------------------|
| 01           | Aug 21, 23 | First release.      |

