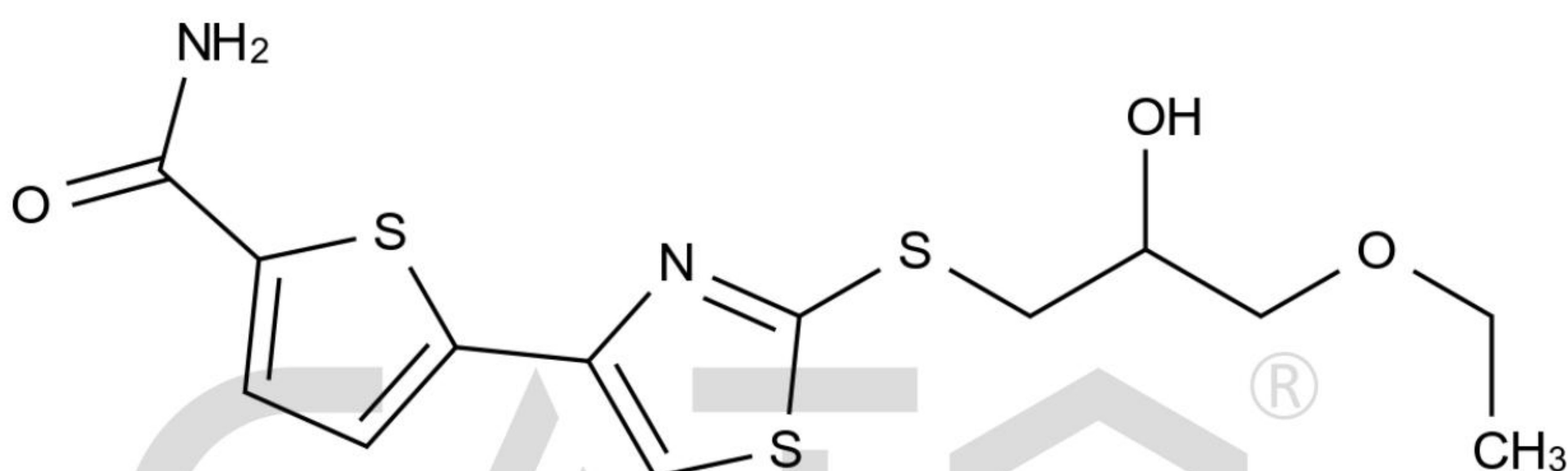


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                                              |                   |                                           |
|--------------------|------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Arotinolol Impurity 43                                                       | Catalogue Number: | C4X-185443                                |
| Synonyms:          | N/A                                                                          | Lot Number:       | 0414-RG-0005                              |
| CAS Number:        | N/A                                                                          | Expiry Date:      | Apr 20, 2028                              |
| Molecular Formula: | C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> S <sub>3</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 344.47                                                                       |                   |                                           |

Chemical Structure:



| Test Items     | Method            | Results            |
|----------------|-------------------|--------------------|
| Appearance     | Visual inspection | Light Yellow Solid |
| Identification | LCMS&CNMR&HNMR    | Confirmed          |
| Purity         | HPLC              | 99.675%            |
| Loss On Drying | TGA               | 0.0327%            |
| Assay          |                   | 99.6%              |

## Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Apr 21, 2025

Date: Apr 21, 2025

Date: Apr 21, 2025

