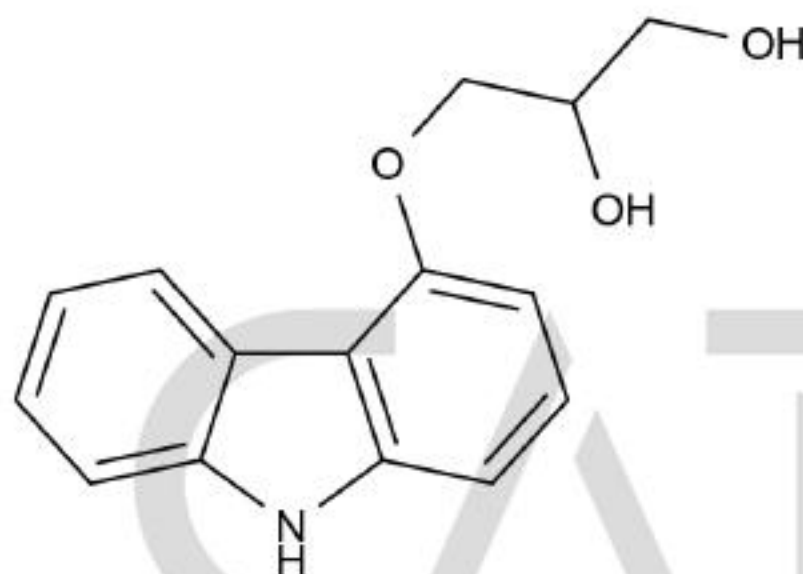


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                 |                   |                                           |
|--------------------|-------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Carvedilol impurity 17                          | Catalogue Number: | C4X-157417                                |
| Synonyms:          | N/A                                             | Lot Number:       | 0322-SA-7870                              |
| CAS Number:        | 123119-89-1                                     | Expiry Date:      | Mar 21, 29                                |
| Molecular Formula: | C <sub>15</sub> H <sub>15</sub> NO <sub>3</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 257.28                                          |                   |                                           |

Chemical Structure:



| Test Items      | Method            | Results                  |
|-----------------|-------------------|--------------------------|
| Appearance      | Visual inspection | Pale Brown to Grey Solid |
| Identification: | LC&HNMR           | Confirmed                |
| Purity:         | HPLC              | 97.382%                  |

Signature:

Prepared by:

*Lisa*

Reviewed by:

*Yuki*

Approved by General Manager:

*David*

Date: Mar 22, 25

Date: Mar 22, 25

Date: Mar 22, 25



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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           | Mar 22, 25 | First release.      |

