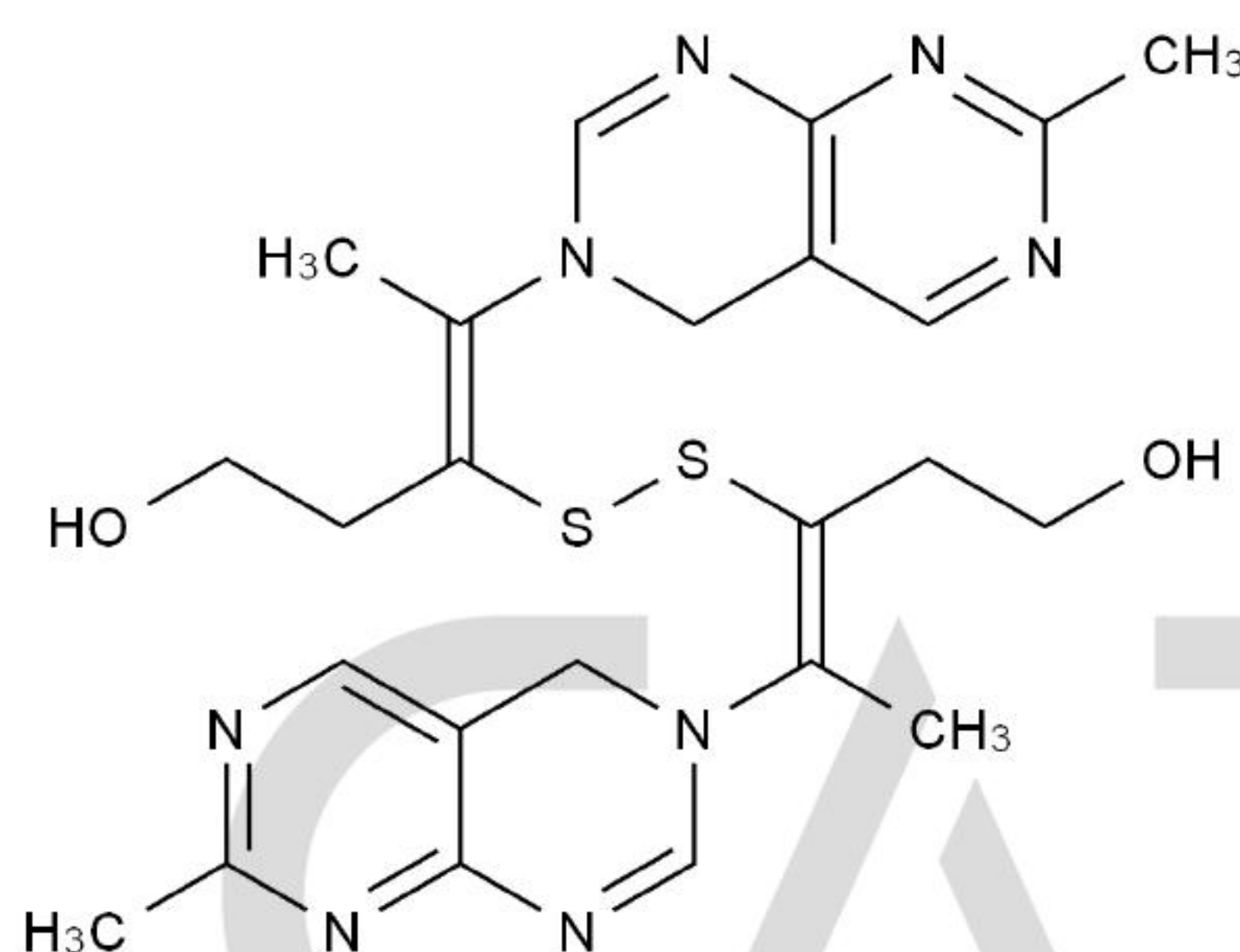


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                                              |                   |                                           |
|--------------------|------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Thiamine Impurity 11                                                         | Catalogue Number: | C4X-187311                                |
| Synonyms:          | N/A                                                                          | Lot Number:       | 0511-RF-0071                              |
| CAS Number:        | 105070-51-7                                                                  | Expiry Date:      | Jun 05, 2027                              |
| Molecular Formula: | C <sub>24</sub> H <sub>30</sub> N <sub>8</sub> O <sub>2</sub> S <sub>2</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 526.68                                                                       |                   |                                           |

Chemical Structure:



| Test Items     | Method            | Results      |
|----------------|-------------------|--------------|
| Appearance     | Visual inspection | Yellow Solid |
| Identification | LCMS&IR&UV&HNMR   | Confirmed    |
| Purity         | HPLC              | 90.5%        |
| Assay          | qNMR              | 82.4%        |

## Comment:

Assay was determined by quantitative <sup>1</sup>H-NMR.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Hinlam*

Approved by General Manager:

*David*

Date: Jun 06, 2024

Date: Jun 06, 2024

Date: Jun 06, 2024

