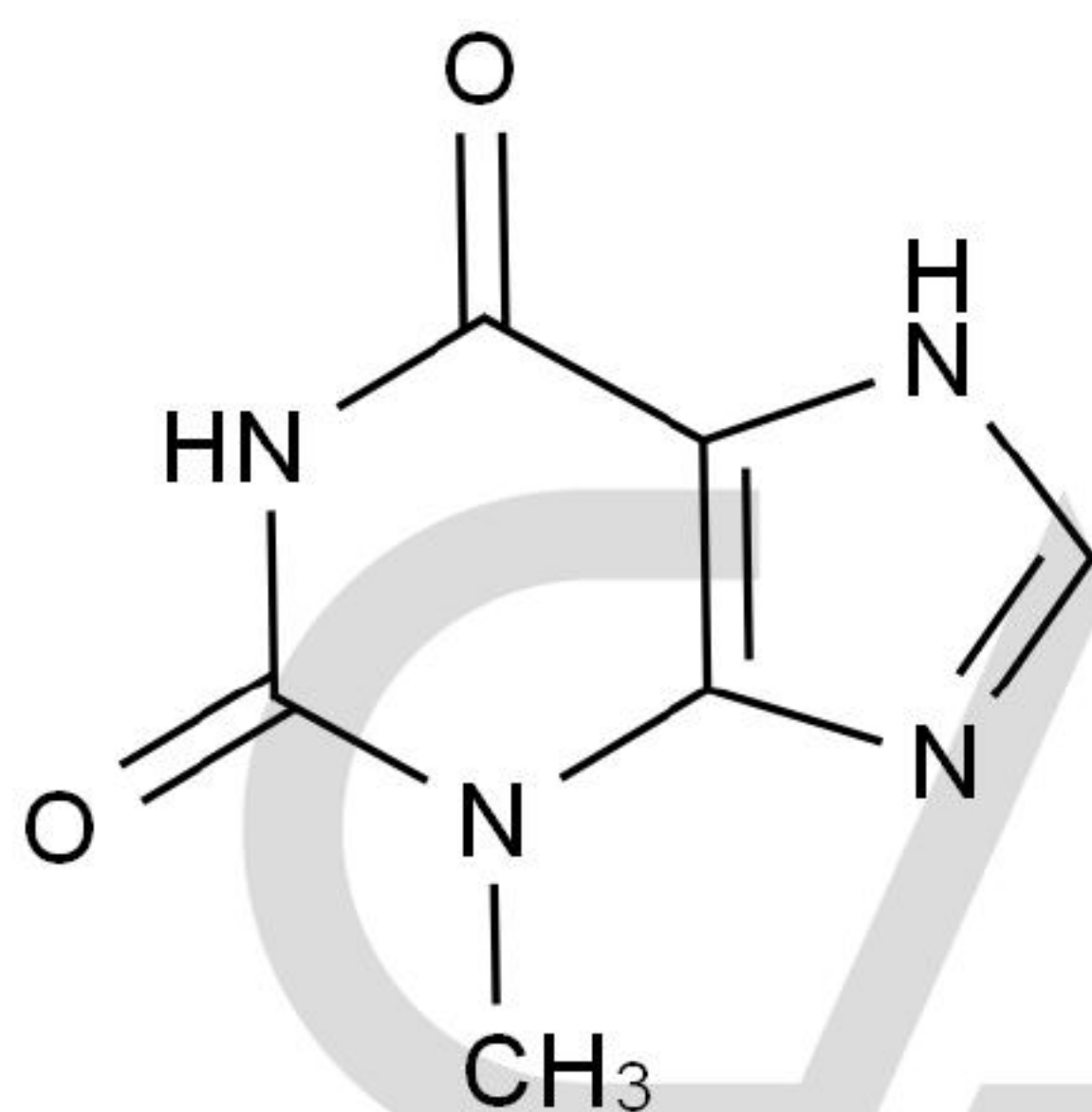


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                             |                            |                                                                                      |
|---------------------------|-------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------|
| <b>Product Name:</b>      | Theophylline EP Impurity B                                  | <b>Catalogue Number:</b>   | C4X-18552                                                                            |
| <b>Synonyms:</b>          | Theophylline Related Compound B                             | <b>Lot Number:</b>         | 0421-RH-0081                                                                         |
| <b>CAS Number:</b>        | 1076-22-8                                                   | <b>Expiry Date:</b>        | Apr 26, 2030                                                                         |
| <b>Molecular Formula:</b> | C <sub>6</sub> H <sub>6</sub> N <sub>4</sub> O <sub>2</sub> | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed                                            |
| <b>Molecular Weight:</b>  | 166.14                                                      | <b>Shipping Condition:</b> | Shipping at Room Temperature                                                         |
| <b>Solubility:</b>        | DMSO                                                        | <b>Warning:</b>            |  |

Chemical Structure:



| Test Items     | Method            | Results            |
|----------------|-------------------|--------------------|
| Appearance     | Visual inspection | Light Yellow Solid |
| Identification | LCMS&HNMR         | Confirmed          |
| Purity         | HPLC              | 99.581%            |
| Loss on Drying | TGA               | 0.0040%            |
| Assay          |                   | 99.6%              |

## Comment:

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

Assay (%) = (100% - Loss on Drying) \* Purity HPLC (%) / 100%

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

## Signature:

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Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Apr 27, 2026

Date: Apr 27, 2026

Date: Apr 27, 2026



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