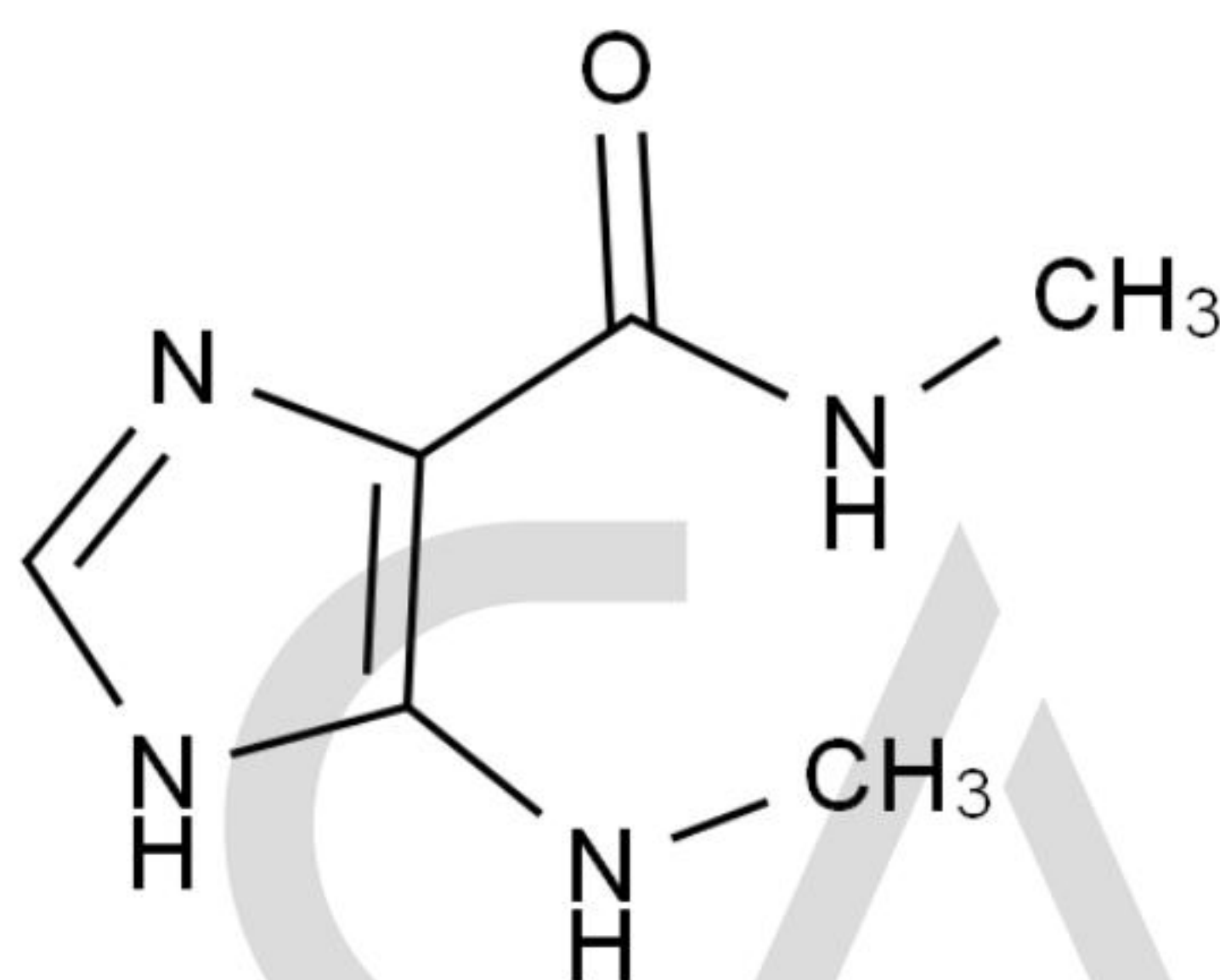


Certificate of Analysis

Reference Material & Standard

Product Name:	Theophylline EP Impurity D	Catalogue Number:	C4X-18558
Synonyms:	Theophylline Related Compound D	Lot Number:	0320-RH-0033
CAS Number:	6736-40-9	Expiry Date:	Mar 25, 2030
Molecular Formula:	C ₆ H ₁₀ N ₄ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	154.17	Shipping Condition:	Shipping at Room Temperature
Solubility:	DMSO		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.832%
Residue on Ignition	TGA	0.7559%
Loss on Drying	TGA	0.0415%
Assay		99.0%

Comment:

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

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

Residue on Ignition and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 12, 2026

Date: May 12, 2026

Date: May 12, 2026



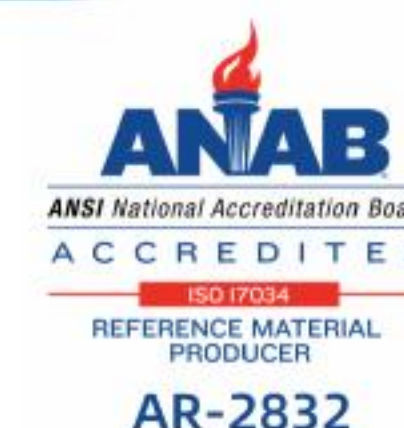
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