

Certificate of Analysis

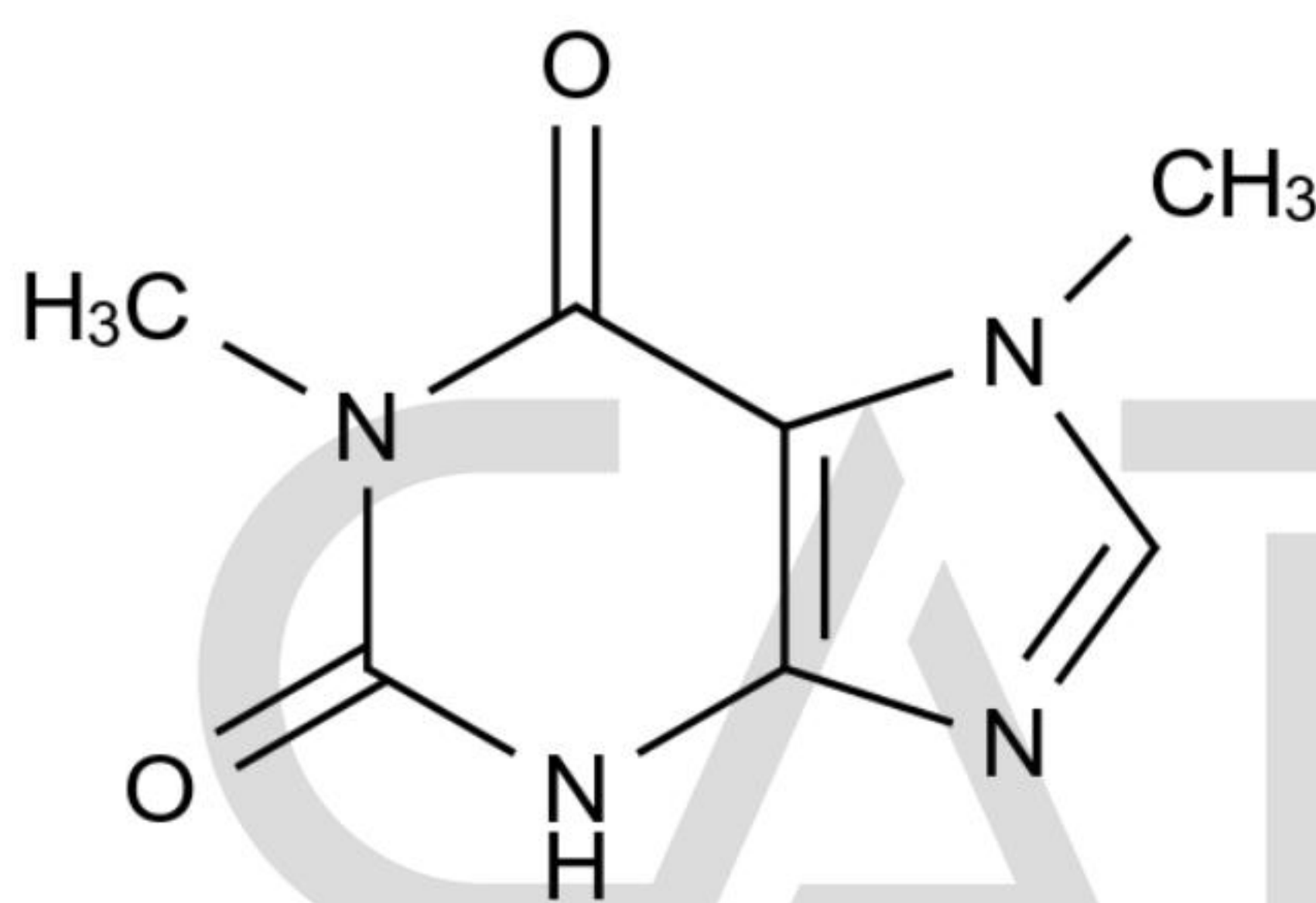
Reference Material & Standard

Product Name:	Caffeine Monohydrate EP Impurity F	Catalogue Number:	C4X-13305
Synonyms:	1,7-Dimethylxanthine	Lot Number:	0217-RG-0085
CAS Number:	611-59-6	Expiry Date:	May 04, 2028
Molecular Formula:	C ₇ H ₈ N ₄ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	180.16	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	HPLC	100.000%
Loss on Drying	TGA	0.5675%
Assay		99.4%

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:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: May 07, 2025

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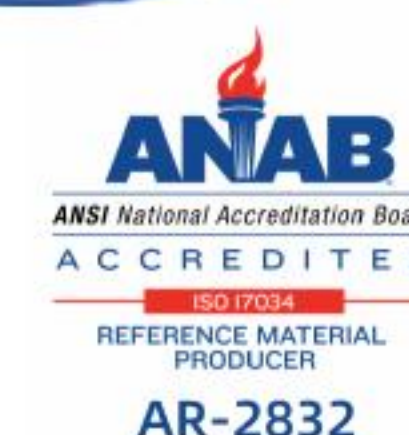
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