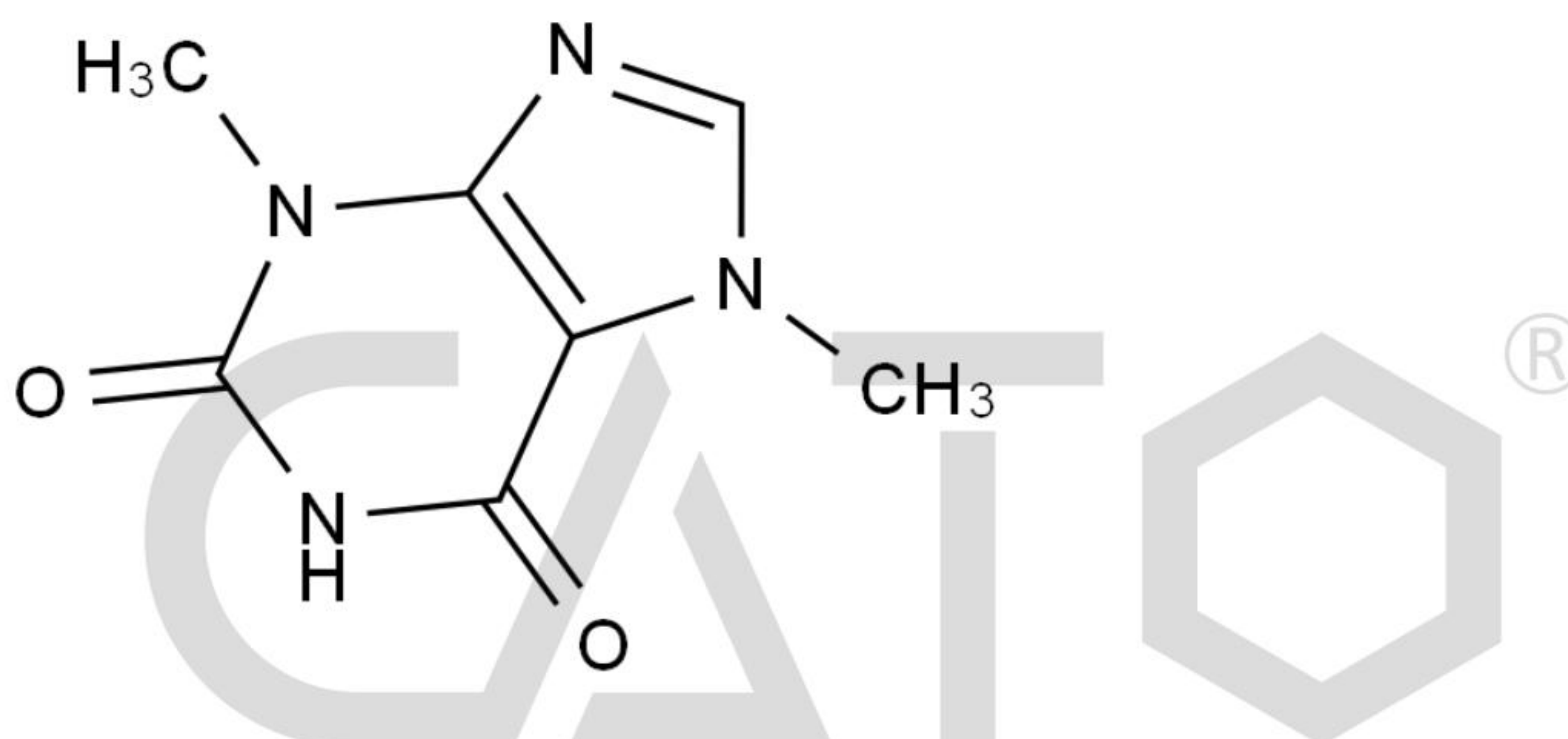


Certificate of Analysis

Reference Material & Standard

Product Name:	Theobromine	Catalogue Number:	CCPE900061
Synonyms:	N/A	Lot Number:	0601-RB-0025
CAS Number:	83-67-0	Expiry Date:	Jul 10, 2027
Molecular Formula:	C ₇ H ₈ N ₄ O ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	180.16	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Loss On Drying	TGA	0.0391%
Assay		100.0%
Uncertainty		±2.0%

Comment:

- Catalogue Number has been changed from "C4X-18557" to "CCPE900061". Therefore some of the graphs shown below were named by "C4X-18557".
- The calculation of the 100% method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$$
 Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.
- The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Nov 20, 2024

Date: Nov 20, 2024

Date: Nov 20, 2024

