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CERTIFICATE OF ANALYSIS

Analysis Date: Nov 2024

Re-test Date: Oct 2027

Product Name: Caffeine EP Impurity D

Identification:

Chemical Name: 3,7-Dimethyl-3,7-dihydro-1H-purine-2,6-dione (as per EP)

Synonyms : Theobromine (EP) ; Caffeine USP
Related Compound D

CAS Number : 83-67-0

CAT Number : CP-C47004

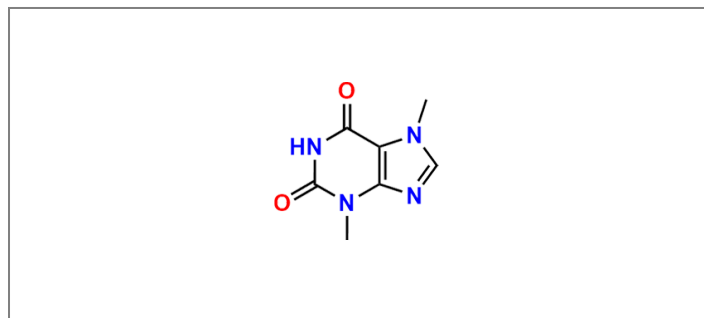
Molecular Formula : C₇H₈N₄O₂

Molecular Weight : 180.16

Batch Number : CP-CAP-D-1024

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA



Analytical Information:

Sr. No.	Test	Result
1)	Description	White to Off White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	99.66%
5)	H1NMR	Confirm to structure
6)	13CNMR	Confirm to Structure
7)	IR	Confirm to Structure
8)	Weight loss by TGA	0.078%
9)	Potency by TGA	99.58%



Prepared and Reviewed By

A handwritten signature in blue ink, appearing to read "Priyanka Salunkhe".

Ms Priyanka Salunkhe
(Manager QC Analytical)

Approved By

A handwritten signature in blue ink, appearing to read "Rohini Gagare".

Ms Rohini Gagare
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.