

CERTIFICATE OF ANALYSIS

(Certificate No. KMC041005-01)

Release Date: 17/10/2024

Re-test Date: 16/10/2027

Caffeine

Identification

Chemical Name :

1,3,7-Trimethyl-3,7-dihydro-1H-purine-2,6-dione (as per EP) ; 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (as per USP)

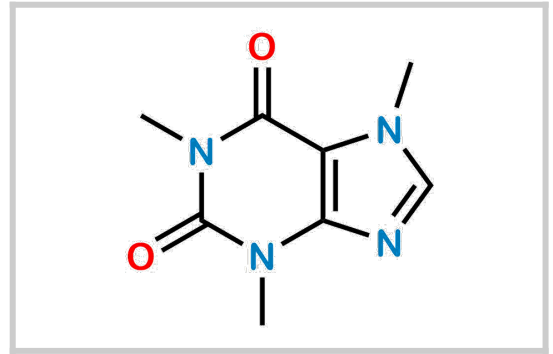
Alt. Name : Theophylline EP Impurity A ;
Pentoxifylline EP Impurity F

CAT No. : KMC041005

CAS No. : 58-08-2

Molecular Formula : C₈H₁₀N₄O₂

Molecular Weight : 194.2



Analytical Information

Batch No. : C041005-073-412

Description : Yellow Solid

HPLC Purity : 99.96 %

Weight Loss By TGA : 0.062 %

% Potency : 99.9 %

Solubility : Acetonitrile

Mass : Confirm

IR : Confirm

¹H NMR : Confirm

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 0.062(Weight Loss By TGA)] x [99.96(HPLC Purity)]/100 = 99.9 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		23/10/2024
Reviewed & Approved By	Quality Control	Jatin Patel		23/10/2024

Attachments : COA, HPLC, MASS, ¹H NMR, IR and TGA