CERTIFICATE OF ANALYSIS

(Certificate No. KMC041005-02)

Release Date: 10/10/2025 **Re-test Date:** 09/10/2028

Caffeine USPRS

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;

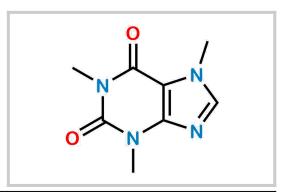
Pentoxifylline EP Impurity F

CAT No. : KMC041005

CAS No. : 58-08-2

Molecular Formula : C8H10N4O2

Molecular Weight : 194.2



Analytical Information

: C041005-102-326 **Solubility** Batch No. : Acetonitrile **Description** : White Solid Mass : Confirm **HPLC Purity** : 99.97 % IR : Confirm Weight Loss By TGA : 0.25 % 1H NMR : Confirm % Potency : 99.72 % **13C 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 - 0.25(Weight Loss By TGA)] x [99.97(HPLC Purity)]/100 = 99.72 %

USP Catalog No & Lot No :- 1085003 - R160N0

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Bhargav Kathiriya		10/10/2025
Reviewed & Approved By	Quality Control	Viraj Akabri		10/10/2025

Attachments: COA, HPLC, MASS, 1HNMR, 13C NMR, IR and TGA