

CERTIFICATE OF ANALYSIS

Product Name: Caffeine Anhydrous (BP2020, EP10.0, USP43, RI-CEP2003-027-Rev03)	
Other name: 1,3,7-trimethyl-3,7-dihydro-1H-purine-2,6-dione	
Molecular weight: 194.2	Molecular formula: C ₈ H ₁₀ N ₄ O ₂
Chemical Abstract No.: 58-08-2	
Batch No.: 20081515	Quantity: 500kg
Manufacture Date: 2020-08-17	Retest Date: 2024-08-16

Item:	Release specifications	Results
Appearance	White or almost white crystalline powder	Complies
Identification	Melting point 234°C ~ 239°C IR Absorption conforms to reference. Loss on drying NMT. 0.5%	Complies Complies Complies
Assay	98.5 – 101.0%	100.1%
Acidity	NMT. 0.2ml of 0.01M NaOH	Complies
Clarity of solution	Clear and colourless	Complies
Heavy Metals (Pb)	NMT. 20ppm	<0.001%
Residual solvents	NMT. 60ppm	Complies
Sulphates (SO ₄)	NMT. 500ppm	0.02%
Related substances	Each impurity A, B, C, D, E, F; NMT. 0.10% Unspecified impurities; NMT. 0.10% Total impurities; NMT. 0.1%	Complies Complies Complies
Organic impurities	Individual impurities; NMT. 0.1% Total impurities; NMT. 0.1%	0.02% 0.02%
Residue on ignition	NMT. 0.1%	0.02%
Shelf life	48 months	In original packing conditions.
Storage	In cool, dry place away from light at below 25°C.	
Packing	In 25kg drum	
Origin	China	

Conclusion: This batch is conforming with Enterprise Internal Standard.