

## CERTIFICATE OF ANALYSIS

Product Name: Caffeine Anhydrous (BP2016, USP39)	
Other name: 1,3,7-trimethyl-3,7-dihydro-1H-purine-2,6-dione	
Molecular weight: 194.2	Molecular formula: C <sub>8</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub>
Chemical Abstract No.: 58-08-2	
RM. Code: CAFAX	Document no: CAFAX-02
Batch No.: 1031610467	Quantity: 300kg
Manufacture Date: Oct, 2016	Retest Date: Sept, 2020

Item:	Release specifications	Standard
Description	White crystalline powder	Visual
Identification	Melting point 234°C ~ 239°C IR Absorption conforms to reference. Loss on drying NMT. 0.5%	BP BP BP
Assay	98.5 – 101.0%	USP
Acidity	NMT. 0.2ml of 0.01M NaOH	BP
Clarity of solution	Clear and colourless	BP
Heavy Metals (Pb)	NMT. 20ppm	BP
Residual solvents	NMT. 60ppm	
Sulphates (SO <sub>4</sub> )	NMT. 500ppm	BP
Related substances	Each impurity A, B, C, D, E, F; NMT. 0.10% Unspecified impurities; NMT. 0.10% Total impurities; NMT. 0.1%	BP BP BP
Organic impurities	Individual impurities; NMT. 0.1% Total impurities; NMT. 0.1%	USP USP
Residue on ignition	NMT. 0.1%	USP
TVAC	NMT. 1,000/g	
Fungi	NMT. 100/g	
Escherichia Coli	Nil/g	
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.		