

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB2846	
Compound name	Caffeine	
Chemical name	1,3,7-Trimethylxanthine	
Batch number	E2360-1-1	
Batch molecular formula	C ₈ H ₁₀ N ₄ O ₂	
Batch molecular weight	194.19	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
NMR	¹ H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM) and in DMSO (50 mM)	Meets specification

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

02/10/2023

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.