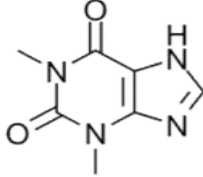


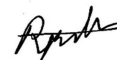
Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB2849	
Compound name	Theophylline	
Chemical name	3,7-Dihydro-1,3-dimethyl-1H-purine-2,6-dione	
Batch number	E1821-1-1	
Batch molecular formula	C ₇ H ₈ N ₄ O ₂	
Batch molecular weight	180.17	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.8%
NMR	¹ H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis shows molecular ion	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 (25 mM) and in DMSO (100 mM)	Meets specification

Produced by Richard Patterson

Signature



Passed by Steve Roome

Signature



Date

04-01-22

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