

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB2153	 HCl
Compound name	Metformin hydrochloride	
Chemical name	N,N-Dimethylimidodicarbonimidic diamide hydrochloride	
Batch number	E1093-1-1	
Batch molecular formula	C ₄ H ₁₁ N ₆ ·HCl	
Batch molecular weight	165.63	

Method	QC requirement	QC Result
NMR	1H NMR in D ₂ O at 400 MHz consistent with structure	Meets specification, shows >95%
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 40% PAW:BuOH shows one spot under ninhydrin	Meets specification: R _f =0.4
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

14-11-19

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