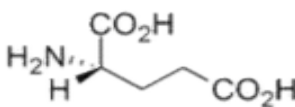


Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0383	
Compound name	L-Glutamate	
Chemical name	(S)-1-Aminopropane-1,3-dicarboxylic acid	
Batch number	E0463-1-1	
Batch molecular formula	C ₅ H ₉ NO ₄	
Batch molecular weight	147.13	
Method	QC requirement	QC Result
NMR	¹ H NMR in D ₂ O/NaOD 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
TLC	TLC analysis in 50% PAW/BuOH shows one spot under ninhydrin	Meets specification: R _f =0.55
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in 0.1M NaOH (100 mM)	Meets specification
Biological validation		

Produced by

Signature

Passed by

Signature

Date

21-06-18

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