

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0355	
Compound name	Kainic acid	
Chemical name	(2S,3S,4S)-Carboxy-4-(1-methylethenyl)-3-pyrrolidineacetic acid	
Batch number	E2114-1-4	
Batch molecular formula	C ₁₀ H ₁₅ NO ₄ ·0.3H ₂ O	
Batch molecular weight	218.64	

Method	QC requirement	QC Result
HPLC	Chiral HPLC shows >98% purity	Meets specification: 100%
NMR	¹ H NMR in D ₂ O at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray negative 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 =0.55
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (25 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

01/08/2023

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