

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB3906	
Compound name	G418 disulphate	
Chemical name	O-2-Amino-2,7-dideoxy-D-glycero-α-D-glucoheptopyranosyl-(1→4)-O-[3-deoxy-4-C-methyl-3-(methylamino)-β-L-arabinopyranosyl-(1→6)]-2-deoxy-D-streptamine sulfate	
Batch number	E0806-1-1	
Batch molecular formula	C ₂₀ H ₄₀ N ₄ O ₁₀ ·2H ₂ SO ₄ ·3H ₂ O	
Batch molecular weight	746.75	
Method	QC requirement	QC Result
NMR	¹ H NMR in D ₂ O 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 75% 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

25-05-18

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