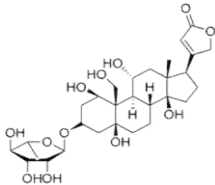


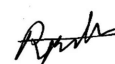
Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB1140	
Compound name	Ouabain	
Chemical name	3-[(6-Deoxy-α-L-mannopyranosyl)oxy]-1,5,11α,14,19-pentahydroxycard-20(22)-enolide	
Batch number	E1172-1-1	
Batch molecular formula	C ₂₉ H ₄₄ O ₁₂ ·8H ₂ O	
Batch molecular weight	728.78	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification:100%
NMR	¹ H NMR in DMSO 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 40% PAW/BuOH shows one spot under KMnO ₄	Meets specification: R _f =0.55
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in DMSO (100 mM) and in water (10 mM)	Meets specification

Produced by

Signature



Passed by

Signature



Date

27-09-19

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