

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB0737	
Compound name	Congo Red	
Chemical name	4-amino-3-[[4-[4-[[1-amino-4-sulfonatophthalen-2-yl]diazanyl]phenyl]phenyl]diazanyl]naphthalene-1-sulfonate disodium salt	
Batch number	E1602-1-1	
Batch molecular formula	$C_{32}H_{22}N_6Na_2S_2O_6 \cdot 0.9H_2O$	
Batch molecular weight	712.88	
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 negative analysis shows molecular ion	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
Physical appearance	Dark red solid solid	Meets specification: Dark red solid solid
Solubility	Soluble in water (50 mM), and in DMSO (50 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

06/07/2022

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