

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB1029	
Compound name	QX 314 bromide	
Chemical name	N-(2,6-Dimethylphenylcarbamoylmethyl)triethylammonium bromide	
Batch number	E1708-1-1	
Batch molecular formula	C ₁₆ H ₂₇ N ₂ O.0.1H ₂ O	
Batch molecular weight	345.11	

Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
NMR	1H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis shows molecular ion	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 uv	Meets specification: R _f =0.7
Physical appearance	White to off-white solid	Meets specification: White solid
Solubility	Soluble in water (100 mM)	Meets specification

Produced by Richard Patterson

Signature

Passed by Steve Roome

Signature

Date

25-02-22

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