Certificate of Analysis



Product Identification Chemical Structure

Catalog number HB6124

Compound name Compound 21 dihydrochloride

Chemical name 11-(1-Piperazinyl)-5H-dibenzo[b,e][1,4]diazepine dihydrochloride

Batch number E1321-6-1

Batch molecular weight 363.89

HCI	H N
HCI	N=\N-\
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Method	QC requirement	QC Result
HPLC NMR	Reverse Phase HPLC shows >98% purity 1H NMR in D ₂ O at 400 MHz consistent with structure	Meets specification: 99.5% 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 4:1:1 AcOH:BuOH:water shows one spot under uv	Meets specification: R _f =0.25
Physical appearance	Yellow to pale yellow solid	Meets specification: Yellow solid
Solubility	Soluble in water (100 mM) and in DMSO (100 mM)	Meets specification

Produced by Signature

Passed by Signature Humber

Date 14-10

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