

Certificate of Analysis



Product Identification		Chemical Structure
Catalog number	HB6149	
Compound name	Clozapine N-oxide dihydrochloride	
Chemical name	8-Chloro-11-(4-methyl-4-oxido-1-piperazinyl)-5H-dibenzo[b,e][1,4]diazepine dihydrochloride	
Batch number	E2249-2-6	
Batch molecular formula	$C_{18}H_{19}ClN_4O \cdot 2HCl \cdot 2H_2O$	
Batch molecular weight	451.78	
Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
NMR	1H NMR in D_2O 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 10% MeOH/DCM shows one spot under uv	Meets specification: $R_f=0.25$
Physical appearance	Yellow to brown solid	Meets specification: Yellow solid
Solubility	Soluble in water (100 mM)	Meets specification

Produced by

Signature

Passed by

Signature

Date

06/07/2023

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