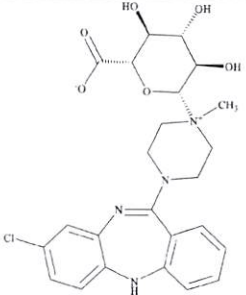


Certificate of Analysis



Certificate No.: **20230625002**

Date: June 25, 2023

Retest date: June 21, 2026

Compound Name:	Clozapine <i>N</i>-Glucuronide	
Synonyms:	(2 <i>S</i> ,3 <i>S</i> ,4 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-6-(4-(8-chloro-5 <i>H</i> -dibenzo[<i>b</i> , <i>e</i>][1,4]diazepin-11-yl)-1-methylpiperazin-1-ium-1-yl)-3,4,5-trihydroxytetrahydro-2 <i>H</i> -pyran-2-carboxylate	
TLC Catalogue Number:	C-1410	
CAS Number:	165602-86-8	
Molecular Weight:	502.95	
Molecular Formula:	C ₂₄ H ₂₇ ClN ₄ O ₆	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	3867-030A20	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO, Water	

Test Description	Specifications	Results
Visual Description	Yellow solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 90.0%	94.3%
Impurity (HPLC)	RT 7.24, 0.69%; RT 9.39, 0.60%; RT 9.95, 3.90%	
Water Content (KF)	N/A	9.1%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.38, DMSO): -20.6°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 85.0%	85.7%
Recommendation:	Release. The compound contains 3.9% Clozapine (RT 9.95, TLC No. C-143) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06 / 27 / 2023
Approved by:	Quality Assurance		06 / 27 / 2023

Attachments: HPLC, IR, MS and NMR spectra.