

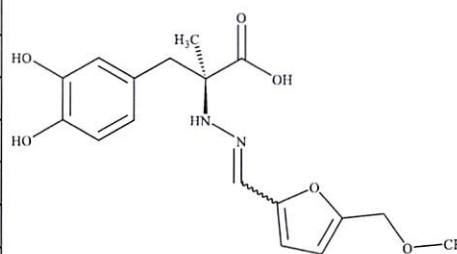
Certificate of Analysis

Certificate No.: 20260616001



Date: June 16, 2026

Retest date: June 3, 2027

Compound Name: Carbidopa Impurity 15 (Mixture of Isomers)	
Synonyms:	(S)-3-(3,4-dihydroxyphenyl)-2-(2-((5-(methoxymethyl)furan-2-yl)methylene)hydrazinyl)-2-methylpropanoic acid
TLC Catalogue Number:	C-2138
CAS Number:	N/A
Alternate CAS Number:	N/A
Molecular Weight:	348.36
Molecular Formula:	C ₁₇ H ₂₀ N ₂ O ₆
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7466-001A10
Storage Conditions:	Protect from air, hygroscopic, store at -20 °C
Solubility:	Methanol, DMSO, Acetonitrile



Test Description	Specifications	Results
Visual Description	Pale 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 75.0%	80.3%
Impurity (HPLC)	RT 1.46, 0.45%; RT 1.54, 1.23%; RT 10.30, 15.51%	
Residual Solvents (NMR)	0.3% acetonitrile	
Assay (qNMR)	Not less than 70.0%	73.8%
Recommendation:	Release. The compound is unstable and can easily deteriorate. It should be stored as the storage condition stated in COA, and to be used immediately upon received. It contains 15.5% impurity with MW = 278 (RT 10.30) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/16/2026
Approved by:	Quality Assurance		06/16/2026

Attachments: Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.