

CERTIFICATE OF ANALYSIS

(Certificate No. KMC022002-01)

Release Date: 15/07/2024

Re-test Date: 14/07/2027

Carbidopa Impurity D

Identification

Chemical Name :

(S)-methyl 2-(2-cyclohexylidenehydrazinyl)-3-(3,4-dihydroxyphenyl)-2-methylpropanoate

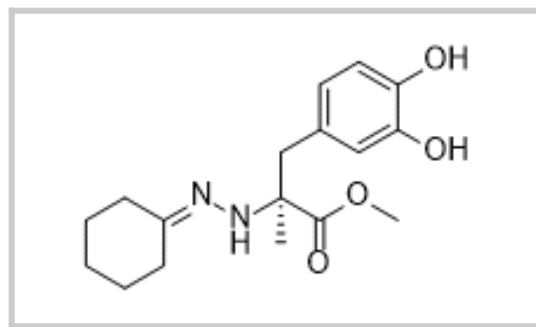
Alt. Name : Cyclohexylidene Carbidopa Methyl Ester

CAT No. : KMC022002

CAS No. : 934371-48-9

Molecular Formula : C₁₇H₂₄N₂O₄

Molecular Weight : 320.38



Analytical Information

Batch No. : CAR-IMP-D-073-271

Solubility : ACN

Description : Brown Hygroscopic Solid

Mass : Confirm

HPLC Purity : 98.39 %

IR : Confirm

Weight Loss By TGA : 1.01 %

¹H NMR : Confirm

% Potency : 97.4 %

¹³C NMR : Confirm

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be shipped at room temperature

% Potency = $[100 - 1.01(\text{Weight Loss By TGA})] \times [98.39(\text{HPLC Purity})]/100 = 97.4 \%$

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		18/07/2024
Reviewed & Approved By	Quality Control	Jatin Patel		18/07/2024

Attachments : COA, HPLC, MASS, ¹H NMR, ¹³C NMR, IR and TGA