

# 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

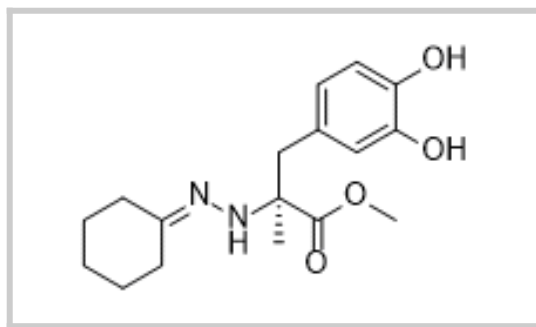
**Alt. Name** : Cyclohexylidene Carbidopa Methyl Ester

**CAT No.** : KMC022002

**CAS No.** : 934371-48-9

**Molecular Formula** : C<sub>17</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>

**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 %

**<sup>1</sup>H NMR** : Confirm

**% Potency** : 97.4 %

**<sup>13</sup>C 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, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR and TGA