

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC022013-01)

Release Date: 07/10/2024

Re-test Date: 06/10/2027

## Carbidopa EP Impurity F

### Identification

**Chemical Name :**

Ethyl (2S)-3-(3,4-dihydroxyphenyl)-2-hydrazino-2-methylpropanoate

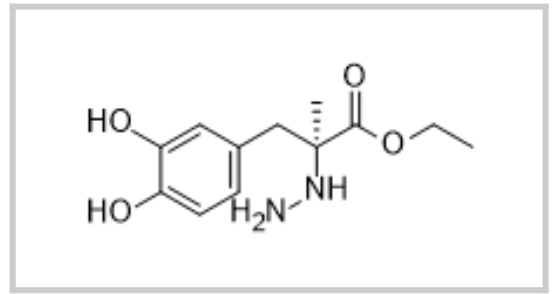
**Alt. Name** : Carbidopa Ethyl Ester (USP)

**CAT No.** : KMC022013

**CAS No.** : 1458640-32-8

**Molecular Formula** : C<sub>12</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight** : 254.3



### Analytical Information

**Batch No.** : C022013-073-406

**Description** : Yellow Solid

**HPLC Purity** : 92.29 %

**Weight Loss By TGA** : 0.42 %

**% Potency** : 91.9 %

**Solubility** : ACN : Water (1:1)

**Mass** : Confirm

**IR** : Confirm

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

**<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 - 0.42(Weight Loss By TGA)] x [92.29(HPLC Purity)]/100 = 91.9 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		08/10/2024
Reviewed & Approved By	Quality Control	Jatin Patel		08/10/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR and TGA