

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC022012-01)

Release Date: 07/10/2024

Re-test Date: 06/10/2027

## Carbidopa EP Impurity E

### Identification

**Chemical Name :**

Methyl (2S)-3-(3,4-dihydroxyphenyl)-2-hydrazino-2-methylpropanoate (as per EP)

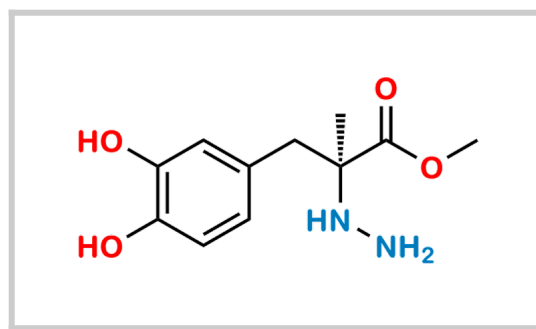
**Alt. Name** : (S)-Carbidopa Methyl Ester ;  
Carbidopa Impurity 2

**CAT No.** : KMC022012

**CAS No.** : 52514-63-3

**Molecular Formula** : C<sub>11</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight** : 240.3



### Analytical Information

**Batch No.** : C022012-073-403

**Description** : Yellow Solid

**HPLC Purity** : 93.99 %

**Weight Loss By TGA** : 0.73 %

**% Potency** : 93.3 %

**Solubility** : Methanol

**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 - 0.73(Weight Loss By TGA)] x [93.99(HPLC Purity)]/100 = 93.3 %

**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