# CERTIFICATE OF ANALYSIS

(Certificate No. KMC022012-01)

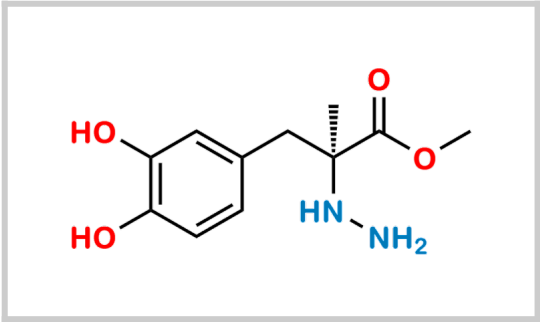
**Release Date:** 07/10/2024 **Re-test Date:** 06/10/2027

## 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** | : C11H16N2O4 |
| **Molecular Weight** | : 240.3 |




## Analytical Information

| | | | |
|---|---|---|---|
| **Batch No.** | : C022012-073-403 | **Solubility** | : Methanol |
| **Description** | : Yellow Solid | **Mass** | : Confirm |
| **HPLC Purity** | : 93.99 % | **IR** | : Confirm |
| **Weight Loss By TGA** | : 0.73 % | **1H NMR** | : Confirm |
| **% Potency** | : 93.3 % | | |

## 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 | | 06/05/2025 |
| **Reviewed & Approved By** | Quality Control | Jatin Patel | | 06/05/2025 |

**Attachments** : COA, HPLC, MASS, 1HNMR, IR and TGA