

# CERTIFICATE OF ANALYSIS

(Certificate No. KMA179002-01)

Release Date: 31/12/2024

Re-test Date: 30/12/2027

## Asparagine EP Impurity A

### Identification

**Chemical Name :**  
(2S)-2-Aminobutanedioic acid (as per EP)

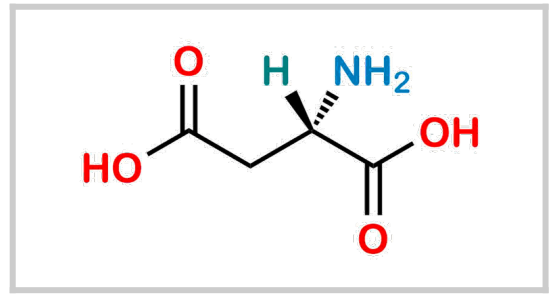
**Alt. Name** : Aspartic acid (EP)

**CAT No.** : KMA179002

**CAS No.** : 56-84-8

**Molecular Formula** : C<sub>4</sub>H<sub>7</sub>NO<sub>4</sub>

**Molecular Weight** : 133.1



### Analytical Information

**Batch No.** : A179002-091-103

**Description** : White Solid

**HPLC Purity** : 99.50 %

**Weight Loss By TGA** : 0.38 %

**% Potency** : 99.12 %

**Solubility** : Water

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H 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 - 0.38(Weight Loss By TGA)] x [99.50(HPLC Purity)]/100 = 99.12 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		01/01/2025
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		01/01/2025

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA