

## Certificate of Analysis

<b><u>Product Name</u></b>	Vitasweet® Aspartame
<b><u>Synonyms</u></b>	Aspartame, Aspartyl Phenylalanine Methyl Ester, APM
<b><u>Definition</u></b>	Chemical name: N-L- $\alpha$ -Aspartyl-L-Phenylalanine-1-Methyl Ester C.A.S. number: 22839-47-0 Chemical formula: C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub> Molecular weight: 294.31
<b><u>Description</u></b>	Odorless, sweet and white crystalline powder
<b><u>Functional Use</u></b>	High potency-low caloric sweetener

**Tests and Methods**      FCC, EP, USP

**Particle size:** 100mesh

**Batch Number:** 2502002DDP      **Batch Size:** 2000KG      **Date of Production:** JAN.10, 2025

Test item	Requirement	Result
Appearance	White crystalline powder or Granular	White crystalline powder
Appearance of solution	Conform to EP	Conform
Identification	Meet the requirements	Conform
Assay(105°C, 4h)	98.0% ~ 102.0%	99.23%
Loss on drying	≤ 4.5%	3.36%
Residue on ignition( Sulphate Ash)	≤ 0.2%	0.05%
Conductivity	≤ 30 $\mu$ s/cm	19.91 $\mu$ s/cm
PH	4.5 ~ 6.0	5.24
Specific rotation	+14.5° ~ + 16.5°	+15.05°
Transmittance	≥95%	99.80%
L-phenylalanine(C)	≤ 0.5%	Not found
Diketopiperazine(A) (5-benzyl-3,6-dioxo-2-Piperazineacetic acid)	≤1.5%	0.06%
Other related substances	≤ 1.5%	0.72%
Heavy metals (as Pb)	≤ 10ppm	<5ppm
Lead	≤ 1ppm	<1ppm
Arsenic	≤ 3ppm	<2ppm
<b>Conclusion: Meets the requirements of <u>FCC, EP, USP</u></b>		

Date of Test: JAN.11, 2025

Date of Expiry: JAN.09, 2028

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