

EAST CHEMSOURCES LIMITED
No.666 Haibin 12th Road, Huangdao, Qingdao,China

Certificate of Analysis

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

Tests and Results

Batch Number:20180629	Date of Production: JUN.29,2018	Date of Expiry: JUN.28,2020
Test	Requirement	Result
Identification	Conform to CP2005	Conform
Loss on drying	≤ 4.5%	3.33%
Residue on ignition	≤ 0.2%	0.10%
Assay	98.0% ~ 102.0%	98.90%
Conductivity	≤ 30 μ s/cm	16.46 μ s/cm
PH	4.5 ~ 6.0	4.77
Specific rotation	+14.5° ~ +16.5°	+14.69°
Transmittance	≥ 95.0 %	98.50%
L-phenylalanine	≤ 0.5%	NOT FOUND
L-α-aspartyl-L-phenylalanine	≤ 0.25%	0.05%
Diketopiperazine	≤ 1.5%	0.03%
Other related substances	≤ 2.0%	0.50%
Appearance of solution	Conform to EP	Conform
Heavy metals (as Pb)	≤ 10ppm	< 5ppm
Lead	≤ 1ppm	< 1ppm
Arsenic	≤ 3ppm	< 2ppm

Statement The product meets the requirements of FCCVIII, FAO/WHO JECFA EP7, USP38 and NF30

EAST CHEMSOURCES LIMITED
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Authorized Signature