



Vitasweet Co., Ltd.
No. 198, Jinwu Road, Liyang, Jiangsu, 213300, P.R.China
Tel: 0519-87689797
Fax: 0519-87303311
URL: www.vitasweet.cn

Certificate of Analysis

Product Name Vitasweet® Aspartame
Synonyms Aspartame, Aspartyl Phenylalanine Methyl Ester, APM
Definition Chemical name: N-L- α -Aspartyl-L-Phenylalanine-1-Methyl Ester
C.A.S. number: 22839-47-0
Chemical formula: $C_{14}H_{18}N_2O_5$ Molecular weight: 294.31
Description Odorless, sweet and white graininess
Functional Use High potency-low caloric sweetener
Tests and Methods FCC, EP, USP

Batch Number: 2306061G **Batch Size:** 2000KG

Test item	Requirement	Result
Appearance	White crystalline powder or Granular	White granular
Appearance of solution	Conform to EP	Conform
Identification	Meet the requirements	Conform
Assay(105°C, 4h)	98.0% ~ 102.0%	98.81%
Loss on drying	$\leq 4.5\%$	2.07%
Residue on ignition(Sulphate Ash)	$\leq 0.2\%$	0.06%
Conductivity	$\leq 30 \mu s/cm$	15.09 $\mu s/cm$
PH	4.5 ~ 6.0	5.21
Specific rotation	+14.5° ~ +16.5°	+15.03°
Transmittance	$\geq 95\%$	99.20%
L-phenylalanine(C)	$\leq 0.5\%$	Not found
Diketopiperazine(A) (5-benzyl-3,6-dioxo-2-Piperazineacetic acid)	$\leq 1.5\%$	0.04%
Other related substances	$\leq 1.5\%$	0.68%
Heavy metals (as Pb)	$\leq 10ppm$	<5ppm
Lead	$\leq 1ppm$	<1ppm
Arsenic	$\leq 3ppm$	<2ppm
Conclusion: Meets the requirements of <u>FCC, EP, USP</u>		

Gu Yuan
Reporter
QC

Liu Ying
Reviewer
Director of QC Department

Date of Expiry: 12.31.2026



Huang Xifan
Manager of QC Department