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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

Particle size 60-100mesh

Batch Number: 23021405

Batch Size:9000KG

Date of Production: FEB.14, 2024

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%	99.29%
Loss on drying	$\leq 4.5\%$	1.89%
Residue on ignition(Sulphate Ash)	$\leq 0.2\%$	0.04%
Conductivity	$\leq 30 \mu s/cm$	17.78 $\mu s/cm$
PH	4.5 ~ 6.0	5.28
Specific rotation	+14.5° ~ + 16.5°	+15.18°
Transmittance	$\geq 95\%$	99.72%
L-phenylalanine(C)	$\leq 0.5\%$	Not found
Diketopiperazine(A) (5-benzyl-3,6-dioxo-2-Piperazineacetic acid)	$\leq 1.5\%$	0.10%
Other related substances	$\leq 1.5\%$	0.53%
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>		

Date of Test: FEB.15, 2024

Date of Expiry: FEB.13, 2027

Pan Yuee
Reporter
QC

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Reviewer
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Huang Xufen
Approver
Manager of QC Department

