

Niutang Aspartame: Powder

FORMULA: C₁₄H₁₈N₂O₅

MOLECULAR WEIGHT: 294.31

CAS: 22839-47-0

E NUMBER: E951

EINECS NUMBER: 245-261-3

FLASHPOINT: Not Applicable

DESCRIPTION:

Aspartame is N-L-alpha-Aspartyl-L-phenylalanine-1-methyl ester. It is a white, crystalline powder or granular material that has a sweet taste. It is sparingly soluble in water and slightly soluble in alcohol. The pH of a 0.8% solution is between 4.5 and 6.0. Niutang Aspartame has a clean, sweet taste that is approximately 200 to 300 times sweeter than sugar.

This material is Kosher, Pareve and Halal Certified.

SUGGESTED USES/APPLICATIONS:

Powdered Soft Drinks, Dry Mixes, Yogurts, Ice Cream, Desserts

SPECIFICATIONS:

Test Item	Specification	Test method or Reference
Identification	Meets Requirements	Current FCC / USP-NF / JECFA
Assay (on dry basis)	98.0% to 102.0%	Current FCC / USP-NF / JECFA
Loss on Drying	≤ 4.5%	Current FCC / USP-NF / JECFA
Residue on Ignition / Sulphated Ash	≤ 0.2%	Current FCC / USP-NF / JECFA
Optical (Specific) Rotation	+14.5° and +16.5°	Current FCC / USP-NF / JECFA
Transmittance	≥ 0.95	Current USP-NF / JECFA
pH (0.8% Solution)	4.5~6.0	Current FCC / JECFA
Heavy Metal (as Pb)	≤ 10 ppm	Current USP-NF
Lead	≤ 1 ppm	Current FCC / JECFA
Arsenic	≤ 3 ppm	Current FCC
5-benzyl-3,6-dioxo-2-Piperazineacetic Acid (DKP)	≤ 1.5%	Current USP-NF / FCC / JECFA
Chromatographic Purity(USP-NF) Other Related Impurities(FCC)	≤ 2.0% USP-NF/FCC	Current USP-NF/FCC
Residual Solvents	Meets Requirements	Current USP-NF
Total Aerobic Plate Count	≤ 250 CFU/g	GB
Yeast and Mold Count	≤ 100 CFU/g	GB
Coliforms	≤ 3.0 MPN/g	GB
Escherichia Coli	Negative/g	GB
Salmonella	Negative/25g	GB
Particle Size	≤ 1% Retained on 100 Mesh	Niutang Internal Method
Bulk Density	0.3 +/- 0.1 g/mL	Niutang Internal Method

FCC = Food Chemical Codex
CFU = Colony Forming Units
GB = National Standard Method

USP-NF = United States Pharmacopeia-National Formulary
MPN = Most Probable Number
JECFA = Joint FAO/WHO Expert Committee on Food Additives



Niutang Aspartame: Powder

CONFORMITY WITH: FAO-WHO Specifications
Food Chemicals Codex
Standards for Food Additives
US Pharmacopoeia

PACKAGING:

25-kg cardboard drums with two PE liner bags or as otherwise agreed upon.

SHIPPING & HANDLING:

Recommended to be stored in an odor-free environment. Low humidity conditions are recommended to minimize caking/degradation potentials.

STORAGE:

Aspartame should be stored in a cool, dry ambient environment. Avoid high heat.

SHELF LIFE:

The shelf life of this material is 5 years from the date of manufacture if stored in ambient room temperature conditions. Product should be reevaluated if it exceeds expiration date.

LOT CODING:

Example Lot: A1501025P

A = Aspartame

15= Year Manufactured: 2015

01 = Month Manufactured: January

025 = Batch Manufactured: #025

P= Powder

NUTRITIONAL DATA:

Niutang Aspartame is chemically pure and contains no additives, preservatives or colors.

Nutrient	Per 100 grams
Water(g)	4.5
Protein(g)*	95.3
L-Phenylalanine(g)	53.5
All Fats(g)	0
Ash(g)	<0.2
Calories(kcal)	381
Carbohydrates(g)	0
Sugar(g)	0
Dietary Fiber(g)	0
Cholesterol (mg)	0
Calcium(mg)	<2
Iron(mg)	<2
Potassium(mg)	<10
Sodium(mg)	≤ 30
Vitamins	0

This data is calculated from standard analytical data. The zero values are based on process knowledge and raw materials used.

* Aspartame is a protein and is digested and metabolized like a simple protein.