

Niutang Aspartame: Granular

FORMULA: C₁₄H₁₈N₂O₅

MOLECULAR WEIGHT: 294.31

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, Parve and Halal Certified.

SUGGESTED USES/APPLICATIONS

Carbonated Soft Drinks

Juices

Where instant solubility is not required

SPECIFICATIONS:

Test Item	Specification	Test method or Reference
Assay (on dry basis)	98.0% to 102%	Current FCC
Optical (Specific) Rotation	+14.5° and +16.5°	Current FCC
Transmittance	≥ 95%	Current USP
Loss on Drying	≤ 4.5%	Current FCC
Residue on Ignition	≤ 0.2%	Current FCC
pH (0.8% Solution)	4.5~6.0	Current FCC
Arsenic (as As)	≤ 3 ppm	Current FCC
Heavy Metal (as Pb)	≤ 10 ppm	Current JP
Lead	≤ 1 ppm	Current FCC
Other Impurities	≤ 2.0%	Current FCC
Organic Volatile Impurities	Meets the Requirement	Current USP
Residual Solvents	Meets the Requirement	Current USP
Diketopiperazine	1.5% Maximum	Current FCC
Total Aerobic Plate Count	≤ 250 CFU /g	GB/T
Yeast and Mold Count	≤ 100 CFU/g	GB/T
Coliforms	≤ 10 CFU/g	GB/T
Escherichia Coli	Negative	GB/T
Salmonella	Negative	GB/T
Particle Size	≤ 5% Retained on 20 Mesh ≤ 85% Between 20-60 Mesh ≤ 10% Through 60 Mesh	Niutang Internal Method
Bulk Density	0.5 +/- 0.1 g/ml	Niutang Internal Method

CFU = Colony Forming Units

FCC = Food Chemical Codex

USP = United States Pharmacopeia

JP = Japanese Pharmacopeia

GB/T = National Standard Method

Meets the requirements set forth in the current FCC and USP/NF.



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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: 070475

07 = Year Manufactured: 2007

04 = Month Manufacture: April

75 = Batch manufactured: #75

Note: Lot number preceded by “20” indicates it was produced at the Niutang Nantong Facility, (ex. 20070475). Otherwise it was produced at the Niutang Changzhou facility.

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.

CAS Number: 22839-47-0