

Neotame

DESCRIPTION

Neotame is N-[N-(3,3-dimethylbutyl)-L-aspartyl]-L-phenylalanine 1-methyl ester. It is a white, crystalline powder that has a sweet taste. It is sparingly soluble in water and very soluble in alcohol. The pH of a 0.5% solution is between 5.0 and 7.0. Neotame has a clean, sweet taste that is approximately 8,000- 14,000 times sweeter than sugar.

This material is Kosher, Pareve and Halal Certified.

Formula: $C_{20}H_{30}N_2O_5$

CAS: 165450-17-9

Molecular Weight: 378.47

Flashpoint: Not Applicable

SUGGESTED USES Beverages, Tabletop Sweeteners, Baked Goods, Dry Mixes, Yogurts, Ice Cream, and Cereals.

Test Item	Specification	Test Method / Reference
Identification	Meet Requirements	Current FCC / USP/NF / JECFA
Assay (on dry basis)	97.0% to 102.0%	Current FCC / USP/NF / JECFA
Moisture	≤ 5.0%	Current FCC / USP/NF / JECFA
Residue on Ignition / Sulphated Ash	≤ 0.2%	Current FCC / USP/NF / JECFA
Optical (Specific) Rotation	-43.4° and -40.0°	Current FCC / USP/NF / JECFA
pH (0.5% Solution)	5.0~7.0	Current FCC / JECFA
Lead	≤ 1 ppm	Current FCC / JECFA
Arsenic	≤ 3 ppm	Current FCC
N-(N—(3,3-Dimethylbutyl)-L-alpha-Aspartyl)-L-Phenylalanine	≤ 1.5%	Current USP/NF / FCC
Other Related Substances	≤ 2.0% USP/NF	Current USP/NF
Residual Solvents	Meets Requirements	Current USP/NF
Melting Point	81°C - 84° C	Internal
Total Aerobic Plate Count	≤ 250 CFU/g	GB
Yeast and Mold Count	≤ 100 CFU/g	GB
Coliforms	≤ 10.0 MPN/g	GB
Staphylococcus	Negative	GB
Salmonella	Negative/25g	GB

CFU = Colony Forming Units
JP = Japanese Pharmacopeia
FCC = Food Chemical Codex

EP = European Pharmacopeia
USP/NF - United States Pharmacopeia-
National Formulary

GB= China National Standard Method
JECFA = Joint FAO/WHO Expert
Committee on Food Additives

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PACKAGING	20-kg cardboard drums with two PE liner bags or as otherwise agreed upon.
SHIPPING & HANDLING	Recommended to be shipped in an odor-free environment. Low humidity conditions are recommended to minimize caking/degradation potentials.
STORAGE	Neotame should be stored in a cool, dry ambient environment. Avoid high heat. Recommended storage conditions are 59° to 86° F (15° - 30° C) and 35% to 60% relative humidity.
SHELF LIFE	The shelf life of this material is 5 years from the date of manufacture if stored in recommended conditions. Product should be reevaluated if it exceeds expiration date.
LOT CODE EXPLANATION	Example Lot: HT151211A HT = Huatian 15 = Year Manufactured: 2015 12 = Month Manufacture: Dec. 11 = Batch manufactured: #11 A = Powder

NUTRITIONAL DATA

Nutrient	Per 100 grams
Water (g)	5.0
Protein (g)*	0
All Fats (g)	0
Ash (g)	0
Calories (kcal)	0
Carbohydrates (g)	0
Sugars (g)	0
Dietary Fiber (g)	0
Cholesterol (mg)	0
Calcium (mg)	0
Iron (mg)	0
Potassium (mg)	0
Sodium (mg)	0
Vitamins	0

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

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

