INGREDIENT SPECIFICATIONS

NutraSweet® Powder

FEATURES & BENEFITS

- Adds clean, sweet taste
- Provides sweetness at low concentrations
- Non-cariogenic
- May enhance and extend certain fruit flavors.
- Possible nutrient claims[§] include sugar-free, no sugar added, reduced sugar, and light
- Delivers sweetness equivalency at a cost competitive with sucrose and corn syrup

SUGGESTED USES

- *All* foods and beverages
- Chewable multi-vitamins
- Pharmaceuticals

INGREDIENTS

Aspartame: L-aspartyl-L-phenylalanine methyl ester (NutraSweet® brand sweetener is chemically pure and contains no additives, preservatives, or colors.)

KOSHER STATUS

NutraSweet® brand aspartame is manufactured under the supervision of the Kashruth Division of the Union of Orthodox Jewish Congregation of the Americas and is kosher and pareve.

LABELING

In many countries, regulations require special labeling regarding the presence of aspartame and/or phenylalanine. In the United States, the following statement must appear on the principal display panel (PDP) or on the information panel.

Phenylketonurics: Contains phenylalanine

In Canada, the PDP must state that the product contains aspartame and include a statement on any part of the label that aspartame contains phenylalanine with the aspartame content in milligrams per serving.

Regulations of each country should be reviewed to determine its special labeling requirements.

PHYSICAL DESCRIPTION

Color:	White
Form:	Crystalline powder
Molecular Formula:	$C_{14}H_{18}N_2O_5$
Molecular Weight:	294.3
Odor:	None
pH (0.8% solution):	Between 4.5 and 6.0
Solubility:	Sparingly soluble in water; slightly soluble in alcohol
Taste:	Sweet

PRODUCT SPECIFICATIONS

Identification test	Conforms to standard
Assay (dried basis)	98.0% to 102.0%
Arsenic	≤ 2 ppm
Heavy metals (as Pb)	≤ 10 ppm
Loss on drying	≤ 4.5%
Residue on ignition	≤ 0.2%
Specific rotation	+14.5° to 16.5°
Transmittance	≥ 95%
Diketopiperazine	≤ 1.5%
Other related substances (FCC)	≤ 2.0%
Other optical isomers	≤ 0.04%
Residual Solvents	Pass
Lead	≤ 1 ppm
Total aerobic bacteria	≤ 250 cfu/g
Coliform	≤ 10 mpn/g
Fungi	≤ 100 cfu/g
Microorganisms of public health concern	None

NutraSweet® brand aspartame meets compendial monographs for aspartame in the U.S. Pharmacopœia/National Formulary and Food Chemical Codex.

RECOMMENDED STORAGE

Avoid high heat and store under dry conditions. Keep container tightly closed and inner bag sealed.

STABILITY/SHELF LIFE

Five years at ambient room temperature storage conditions, typically 59° to 86°F (15° - 30°C) and 35% to 60% relative humidity, when properly stored. Product should be reevaluated after this period.

PACKAGING/SHIPPING

USA
Standard packaging is in 25 kilogram corrugate boxes. Boxes are designed to be stacked no more than four pallets high. Custom packaging available.

CAS Number: 22839-47-0

U.S. Department of Transportation Class 70, item 75100, non-hazardous.

LOT CODING

Example: A30121, where

A = Plant code: Augusta, Georgia, USA
3 = Year manufactured (2013)
01 = Month manufactured (January)
21 = Day of month manufactured

MORE INFORMATION IS AVAILABLE TO YOU

This bulletin is intended to be general in nature. We are eager to work with you in the development of new products and processes. For additional information about our products, please call **1-800-323-5321 (USA/Canada)**

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TYPICAL NUTRIENT DATA

Nutrient [1]	Per 100 g
Water (g)	4.5
Protein (g) [2]	95.3
L-phenylalanine (g)	56
Fat (g)	0
Saturated (g)	0
Monounsaturated (g)	0
Polyunsaturated (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
Niacin (mg)	0
Phosphorus (mg)	0
Potassium (mg)	< 10
Riboflavin (mg)	0
Sodium (mg)	≤ 30
Thiamine (mg)	0
Vitamin A (IU)	0
Vitamin C (mg)	0

[1] Calculated from standard or analytical data on NutraSweet® brand sweetener. Zero values are based on knowledge of raw materials used in processing.

[2] Aspartame is a dipeptide which is digested and metabolized like a simple protein.

The information contained herein is, to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee, since we can neither anticipate nor control the different conditions under which this information and our products are used. Each manufacturer should evaluate the nutrient content of their final products to determine compliance with FDA food labeling regulations when making nutrient claims. Further, The NutraSweet Company disclaims all liability with regard to its customers' infringement of third party patents. We recommend that our customers apply for licenses under any relevant patents. No statement herein or by our employees shall be construed to imply the nonexistence of relevant patents nor as a recommendation or inducement to infringe said patents. It is our policy, however, to assist our customers and to help in the solution of particular problems that may arise in connection with applications of our products.
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