



Specification

Concerning Product:	
Article number	22839470NPEULY
Trade name / designation / denomination	Aspartame Granular, FCC EP, USP
CAS number	22839-47-0
Other names / synonyms	aspartame Aspartam
EC number	245-261-3
Customs tariff number / CN code / TARIC	29242998
Molecular weight [g / mol]	294.30312
Formula	C ₁₄ H ₁₈ N ₂ O ₅

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance		white, crystalline powder or granular material	
Discription		Aspartame is a protein and is digested and metabolized like a simple protein.	
Discription		Aspartame ~ N-L-alpha-Aspartyl-L-phenylalanine-1-methyl ester	
Flavor and taste		clean, sweet taste: approximately 200 to 300 times sweeter than sugar	
Physical parameter			
Bulk density	internal	0,4 - 0,6	g/ml
Conductivity	EP	≤ 30	μS/cm
Loss on drying	FCC/USP-NF/JECFA/EP	≤ 4,5	%
pH value	FCC/JECFA	(in 0,8%): 4,5 - 6,0	
Specific Optical Rotation	FCC/USP-NF/JECFA/EP	+14,5 - +16,5	°
Solubility		in water: sparingly soluble	
Solubility		in ethanol: slightly soluble	
Transmittance	USP-NF/JECFA	≥ 95,0	%
Identity			
Assay	FCC/USP-NF/JECFA/EP	(dry) 98,0 - 102,0	%
Identification	FCC/USP-NF/JECFA/EP	complies	

Impurities			
Residue on ignition	FCC/USP-NF/JECFA/EP	≤ 0,2	%
Heavy Metals (as Pb)	USP-NF/JP/EP	≤ 10	ppm
Impurity	EP	L-phenylalanine: ≤ 0,5	%
Impurity	USP-NF/JECFA/FCC	Diketopiperazine (5-Benzy1-3,6-Dioxo-2-Piperazineacetic Acid): ≤ 1,5	%
Related substances	EP	in sum: ≤ 1,5	%
Related substances	USP-NF	in sum: ≤ 2,0	%
Elemental Impurities			
Arsenic (As)	FCC	≤ 3	ppm
Lead (Pb)	FCC/JECFA	≤ 1	ppm
Nutritional data			
Ash (Nutrient)		≤ 0,2	g/100g
Calories		≤ 381	kcal
Calcium (Nutrient)		≤ 2	mg/100g
Carbohydrates		≤ 0	g/100g
Cholesterol		≤ 0	mg/100g
All Fats		≤ 0	g/100g
Iron (Nutrient)		≤ 2	mg/100g
Dietary Fiber		≤ 0	g/100g
Potassium (Nutrient)		≤ 10	mg/100g
Sodium (Nutrient)		≤ 30	mg/100g
L-Phenylalanine		≤ 53,5	g/100g
Protein		≤ 95,3	g/100g
Sugar		≤ 0	g/100g
Vitamins (Nutrient)		≤ 0	mg/100g
Water (Nutrient)		≤ 4,5	g/100g
Microbiological data			
Coliform bacteria	GB	≤ 3,0	MPN/g
Escherichia Coli.	GB	≤ 0	cfu/g
Salmonella	GB	≤ 0	CFU/g
Total Plate Count	GB	≤ 250	CFU/g
Yeast and Mould	GB	≤ 100	CFU/g
Particle size distribution			
Particles	internal	< 60 mesh: ≤ 10	%
Particles	internal	20-60 mesh: ≥ 85	%
Particles	internal	> 20 mesh: ≤ 5	%

Annotation:

CFU = Colony Forming Units

JP = Japanese Pharmacopeia

FCC = Food Chemical Codex

GB = National Standard Method

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

Regulatory information:

Residual solvents(USP-NF):
meets requirements

Supplemental information:

Released by manufacturer:
2014-10-28

Shelf life:
5 years from the date of manufacture if stored in ambient room temperature conditions
(reevaluation after expiration recommended)

Note:
This material is Kosher, Pareve and Halal Certified.

Storage conditions:
in a odor-free, cool, dry ambient environment; avoid heat and humidity

Complies with monographie:

- FAO-WHO Specifications
- Food Chemicals Codex
- European Commission Regulation No. 231/2012
- Japanese Standards for Food Additives
- US Pharmacopoeia
- European Pharmacopeia

Regional origin:
CN

Usage:
examples: powdered Soft Drinks, Dry Mixes, Yogurts, Ice Cream, Desserts

Version of manufacturer:
Rev. 7

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 30. Jul. 2018

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