## Aspartame Powder

## 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. SinoSweet® Aspartame has a clean, sweet taste that is approximately 180 to 200 times sweeter than sugar.

Formula: C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub>	CAS: 22839-47-0	Molecular Weight: 294.31
E Number: E951	EINECS Number: 245-261-3	Flashpoint: Not Applicable

**SUGGESTED USES** Beverage, Dry Powder Mixes, Tabletops, Chewable Vitamins, Pharmaceuticals

Test Item	Specification	Test Method / Reference
Appearance	White Powder	Visual
Odor/Taste	Conforms to Quality Standards	Internal Method
Identification	Meets Requirements	Current FCC / USP/NF / JECFA / EP
Assay (on dry basis)	98.0% to 102%	Current FCC / USP/NF / JECFA / EP
Loss on Drying	≤ 4.5%	Current FCC / USP/NF / JECFA / EP
Residue on Ignition / Sulphated Ash	≤ 0.2%	Current FCC / USP/NF / JECFA / EP
Optical(Specific) Rotation	+14.5° and +16.5° 💡	Current FCC / USP/NF / JECFA / EP
*Conductivity	≤ 30 μScm-1	EP
Transmittance	≥ 95%	Current USP/NF /JECFA
Extraneous Matter	Free From Material Foreign to Product	Free From Visual Evidence
pH (0.8% Solution)	4.5 ~6.0	Current FCC/JECFA
Heavy Metal (as P <mark>b)</mark>	≤ 10 ppm	Current USP/NF / JP / EP
Lead	≤ 1 ppm	Current FCC / JECFA
Arsenic	≤ 3 ppm	Current FCC
Residual Solvents	Meets Requirements	Current USP/NF
5-benzyl-3,6-dioxo-2-Piperazineacetic Acid (DKP)	≤ 1.5%	Current USP / NF / FCC / JECFA
Other Related Substances	≤ 2.0% USP/NF; ≤ 1.5% EP	Current USP/NF
L-phenylalanine	≤ 0.5%	Current EP
Solubility	Completely Dissolves	Internal Method
Particle Size	On 100 Mesh ≤ 5.0%	Internal Method
Bulk Density	0.3± 0.1 g/mL	Internal Method
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
CC = Food Chemical Codex USP/NF - U	nited States Pharmacopeia-National Formulary	GB= China National Standard Method

FCC = Food Chemical CodexUSP/NF - United States Pharmacopeia-National FormularyJP = Japanese PharmacopeiaEP = European PharmacopeiaJECFA = Joint FAO/WHO Expert Committee on Food Additives

GB= China National Standard Method CFU = Colony Forming Units MPN = Most Probable Number

\* Capable of manufacturing EP grade Aspartame, please discuss with your sales representative on your requirements.



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## Aspartame Powder

CONFORMITY	FAO-WHO Specifications		
WITH	Food Chemicals Codex		
	European Commission Regulation No. 231/2012		
	Japanese Standards for Food Additives		
	US Pharmacopoeia		
	This material is Kosher Pareve and	Halal Certified	
PACKAGING	25 kg net weight fiber drums with inner liner or as otherwise agreed upon.		
SHIPPING&	Recommended to be stored in an odor-free environment. Low humidity conditions are recommended to minimize caking/degradation potentials.		
HANDLING			
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 i		
	temperature conditions. Product should be reevaluated if it exceeds expiration date.		
LOT CODE	Example Lot: W21010101		
EXPLANATION	W = Plant Code		
	21 = Year of Manufactured: 2021		
	01 = Month Manufactured: January		
	01 = Day (1st day of month)		
	01 = Batch No. #01		
NUTRITIONAL	Nutrient	Per 100 grams	
DATA	Water(g)	4.5	
	Protein(g)* L-Phenylalanine(g)	95.3 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	
	lron(mg)	<2	
	Potassium(mg)	<10	

Sodium(mg)

Vitamins

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.



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≤30 0

