

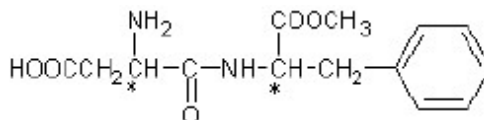
SHAOXING MARINA BIOTECHNOLOGY CO., LTD

Tel: 86 575 81195271 Fax: 86 575 81195228 Web: www.yameiline.com

Add: Binhai Industry Zone, Shaoxing, Zhejiang, P.R. China

SPECIFICATION / TDS

ASPARTAME GRANULAR (FCCVIII/USP36)



Chemical Structure:

Synonyms :Aspartyl phenylalanine methyl ester;APM

Chemical name :N-L- α -aspartyl-L-phenylalanine-1-methyl ester

Chemical formula : C₁₄H₁₈N₂O₅

Molecular weight :294.31

CAS Number:22839-47-0

DESCRIPTION:

Aspartame is a nutritive sweetener based on two amino acids. It is metabolized like a food protein. Aspartame is a white,crystalline substance,approximately 200 times sweeter than sugar.Aspartame provides a clean sugar-like sweetness,without any bitter or metallic after-taste.

CHEMICAL SPECIFICATION:

| TEST | METHODOLOGY | SPECIFICATION |
|---|--------------------|---------------------------|
| Identification(chemical and infra-red) | USP/FCC/EP/E951 | Conform to standard |
| Assay (dry basis) | FCC/USP/EP/GB/E951 | 98.0 -102.0%(wt) |
| Loss on drying | FCC/USP/EP/GB/E951 | ≤4.5%(wt) |
| Residue on ignition | FCC/USP/EP/GB/E951 | ≤0.2%(wt) |
| L-Phenylalanine(Ph.Eur) | EP | ≤0.5%(wt) |
| Other related substances | USP/EP/GB/E951 | ≤1.5%(wt) |
| pH(0.8% in water) | FCC/USP/EP/GB/E951 | Between 4.5 and 6.0 |
| L- α -Aspartyl-L-Phenylalanine | EP | <0.25%(wt) |
| Specific rotation | FCC/USP/EP/GB/E951 | Between +14.5° and +16.5° |
| Spectrophotometry | USP/GB/E951 | ≥95% |
| Heavy metals(as pb) | USP/EP/E951 | ≤10 ppm |
| Lead (mg/kg) | FCC/USP/EP/GB/E951 | ≤1 ppm |
| Arsenic(As) | FCC/USP/EP/E951 | ≤3 ppm |
| Test for amine group | FCC/USP/EP/GB/E951 | Passes test |
| Test for ester | FCC/USP/EP/GB/E951 | Passes test |
| 5-benzyl-3,6-dioxo-2-piperazine acetic acid | FCC/USP/EP/GB/E951 | not more than 1.5%(wt) |
| Other optical isomers | FCC/USP/EP/GB/E951 | Passes test |

MICRO BIOLOGICAL SPECIFICATION

| | |
|---------------------|--------------|
| Aerobic plate count | ≤250cfu/g |
| Yeast and Mould | ≤100cfu/g |
| Coliforms | ≤10cfu/g |
| E-Coli | Negative/g |
| Salmonella | Negative/25g |

Physical Properties

| | |
|---------------|----------------|
| Mesh size: | 20-60Mesh |
| Bulk Density: | 0.6 ± 0.1 KG/L |

FCC= Food Chemical Codex

EP=European Pharmacopoeia

USP= US Pharmacopoeia

GB=National Standard of P.R.C.

REGULATORY REQUIREMENTS:

YAMEI Aspartame conforms to the specification of:

- US Food & Drugs Administration(FDA)at 21 C.F.R. § 172.804,
- US Pharmacopoeia-National Formulary(USP-NF), National Formulary 31 and Supplements,
- Food Chemicals Codex(FCC),8th edition and Supplements,
- European Pharmacopoeia(Ph.Eur),7th edition, and Supplements,
- European Commission Directive 231/2012,laying down specific criteria of purity concerning sweeteners for use in foodstuffs.
- GB 22367-2008 National Standard of P.R.C.

HALAL STATUS:

YAMEI Aspartame is manufactured under the supervision of Majelis Ulama Indonesia, does not contain or any questionable ingredients of animal origin ,hence Halal and fit for consumption by Muslims.

KOSHER STATUS:

YAMEI Aspartame has the status and is manufactured under the supervision of the BETH DIN LONDON, COURT OF THE CHIEF RABBI and is Kosher and pareve.

SHELF-LIFE:

Two years when container is kept tightly closed and inner bag sealed,and storage conditions are cool and dry. Re-evaluate product after this period.

PACKAGING:

YAMEI Aspartame is available in cardboard boxes containing polyethylene bags of 25 KG,or as otherwise agreed upon.