

TECHNICAL DATA SHEET

D-Asparagine Monohydrate

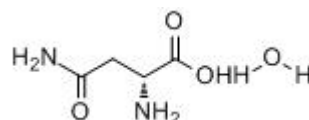
AJI92

Chemical Properties

Chemical Formula: C₄H₁₀N₂O₄

Molecular Weight: 150.13

CAS: 5794-24-1



Description

D-Asparagine Monohydrate is obtained by dissolving of DL-aspartic acid. Asparagine (abbreviated as Asn or N), encoded by the codons AAU and AAC, is an α-amino acid that is used in the biosynthesis of proteins.

Solubility

It is soluble in water.

Specification

Item	Specification	Test Method
Appearance	White crystals or crystalline Powder.	Visual
Assay	99.0%~101.0%	AJI92
Loss on drying	11.5%~12.5%	AJI92
Residue on ignition	Max 0.10%	AJI92
Specific rotation [α] _D ²⁰	-34.5°~ -36.5°	AJI92
State of solution	Min 98.0%	AJI92
Other amino acids	Max 1.0%	AJI92
Sulfate	Max 0.02%	AJI92
Chloride	Max 0.02%	AJI92
Ammonium	Max 0.10%	AJI92
Heavy metals(Pb)	Max 10ppm	AJI92
Arsenic	Max 1ppm	AJI92
Iron	Max 10ppm	AJI92
Total plate count	Max 1000cfu/g	AJI92
Mold & Yeast	Max 100cfu/g	AJI92
<i>E. Coli</i>	Negative	AJI92
<i>Salmonella</i>	Negative	AJI92

Ingredients

Pure D-Asparagine Monohydrate.

Labeling

In the United States and the European Union: D-Asparagine Monohydrate.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry area away from incompatible substances. Keep under an argon blanket.

Packaging, Storage & Shelf Life

Package	25kg/drum; or according to customers' requirements.
Storage	Store in a well-closed container away from moisture and direct sunlight.
Shelf Life	2 years if sealed and stored properly.