Amino Acids

Nutritional excipients for parenterals

Product Description

Pharmaceutical-grade Amino Acids (essential and non-essential) are used in parenteral nutrition, protein supplements and pharmaceutical formulations. Available to BP/USP standards.

Certificate of Analysis

HSN Code: 2922.41 CAS Number: Glycine: 56-40-6 / L-Ala Classification: Pharmaceutical Excipients

Parameter	Specification	Test Method
Appearance	White crystalline powder	Visual
Assay (each amino acid)	99.0–101.0% on dried basis	HPLC
Identification	Confirmed by chromatography (Rf or RT)	TLC / HPLC
Specific Optical Rotation	As per individual amino acid specification	USP <781>
Loss on Drying	"d 0 . 5 %	USP <731>
Residue on Ignition	"d 0 . 4 %	USP <281>
Heavy Metals	"d 2 0 p p m	USP <231>

Physical Properties

Appearance: White crystalline powder

Molecular Formula: Various (e.g., Glycine: C,H...NO, / L-Leucine: C†H•ƒNO,

Molecular Weight: Various (e.g., Glycine: 75.03 g/mol / L-Leucine: 131.17 g/mol)

Solubility: Generally soluble in water; vary by amino acid

Melting Point: Varies by amino acid (typically 200–300°C decomp.)

Packing: 25 kg HDPE drums with inner polyethylene liner; 1 kg, 5 kg aluminium foil pouches

Storage: Store in a cool, dry, well-ventilated area away from light and moisture. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, dust mask, lab coat

Hazards:

- Dust may cause mild respiratory irritation
- Individual amino acids may have specific precautions