

L-Arginine

Product description

Appearance	A white or almost white, crystalline powder or colorless crystals, freely soluble in water, very slightly soluble in alcohol
CAS No.	74-79-3

Chemical description

Chemical formula	C ₆ H ₁₄ N ₄ O ₂
Molecular weight	174.20g/mol

Specification

	Test	Specification	Method
	Appearance	White crystalline powder	Visual
	Status of Solution	Not less than 98.0%	10% solution at 430nm
	pH	10.5~12.0	10% solution
	Assay	98.5% ~ 101.0%	USP
	Identification	Conforms to USP STD	Infrared Absorption
Specific Test	Specific Rotation	20°C: + 26.9 ° ~ + 27.9 ° 25°C: + 26.3 ° ~ + 27.7 °	USP
	Loss on drying	Not more than 0.5%	
Nutritional Value	Crude Protein	198.0 % ~ 203.0%	(N % x 6.25)
	Gross Energy	513.5 Kcal/100g	Bomb Calorimeter
Inorganic Impurities	Residue on ignition	Not more than 0.1%	USP
	Chloride	Not more than 0.02%	USP
	Sulfate	Not more than 0.02%	USP
	Ammonium	Not more than 0.02%	HPLC
	Heavy metals	Not more than 5 ppm	USP
	Lead	Not more than 1 ppm	USP
	Arsenic	Not more than 1 ppm	USP
	Cadmium	Not more than 1 ppm	USP
	Mercury	Not more than 0.1 ppm	USP
	Iron	Not more than 10 ppm	USP
Organic Impurities	Organic impurities*	Total (not more than 0.5%)	USP, EP
	Organic volatile	Meets the requirement	USP

This product meets quality requirements of current EP 8th, USP 37 and FCC monographs

* Organic impurities testing-meets requirements for Chromatographic Purity as required by USP, and Ninhydrin-positive substances as required by EP.

Packaging

25 kg double poly-ethylene bags with a silica-gel in fiber drum.

Storage

Store in dry conditions and fresh place in a sealed or closed container that is to be protected from water, sunlight and heat

Shelf life

3 years when stored in the above mentioned condition

CJ BIO BU CJ Bldg, 330, Dongho-ro, Jung-gu, Seoul, 100-400, Korea
www.cjbio.net

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