精晶药业
JINGJING
PHARMACEUTICAL

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CERTIFICATE OF ANALYSIS

NAME: L-Citrulline

QNTY: 2000Kg BATCH NO: C512310016

MANUF.DATE: 2023-10-11 Shelf life: 2 years

STANDARD: AJI92

Item	Specification	Result	Test Method
Description	White crystals or crystalline powder;Slightly sweet taste.	Qualified	AJI92
Identification	In accordance with standard retention time	Qualified	HPLC
	Infrared identification		
Optical rotation （°）	+24.5～+26.8	+25.4	AJI92
Transmittance （%）	Not less than 98.0	99.7	AJI92
Chloride（%）	Not more than 0.02	less than 0.02	AJI92
Sulfate（%）	Not more than 0.02	less than 0.02	AJI92
Ammonium（%）	Not more than 0.02	less than 0.02	AJI92
Iron（ppm）	Not more than 10	less than 10	AJI92
Heavy Metal（ppm）	Not more than 10	less than 10	AJI92
Lead（ppm）	Not more than3	Not Detected	GB 5009.12-2017 I
Totale mercury（ppm）	Not more than 0.5	Not Detected	GB 5009.17-2021
Cadmium（ppm）	Not more than 1	Not Detected	GB 5009.15-2014
Arsenic（ppm）	Not more than 3	less than 3	AJI92
Loss on drying（%）	Not more than 0.3	0.12	AJI92
Residue on ignition（%）	Not more than 0.1	0.04	AJI92
pH	5.0～7.0	5.85	AJI92
Assay（%）	98.5~101.0	99.6	AJI92
Total plate count（cfu/g）	Not more than 1000	less than 1000	AJI92
Yeast and Mould（cfu/g）	Not more than 100	less than 100	AJI92
E.coli	Absence/10g	Conforms	AJI92
Salmonella	Absence/10g	Conforms	AJI92
Coliforms（cfu/g）	Not more than 10	less than 10	AJI92

Conclusion: Qualified

Analysis date: 2023-10-12 Analyst: 刘婷霞 Verifier: 赵秋霞