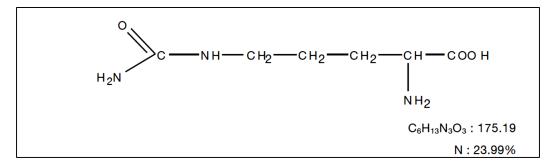
Specification of L-CITRULLINE CAS No.: 372-75-8

Edition date: 11.3.2019 Revision index: 9

MOLECULAR STRUCTURE AND FORMULA



DESCRIPTION

White crystalline powder

SPECIFICATION AND PROCEDURE

Test Item	Acceptance Criteria	Methods
APPEARANCE	WHITE CRYSTALLINE POWDER	Visual
IDENTIFICATION	PASS TEST	USP
STATE OF SOLUTION	COLORLESS AND CLEAR	Visual
рН	5.7 ~ 6.7	USP
SPECIFIC ROTATION (AT 20°C)	+24.5 ~ +26.5°	USP
AMMONIUM	NOT MORE THAN 0.020%	In-house
CHLORIDE (CI)	NOT MORE THAN 0.017%	USP
SULFATE (SO ₄)	NOT MORE THAN 0.020%	USP
IRON (Fe)	NOT MORE THAN 10ppm	USP
ARSENIC	NOT MORE THAN 1.4ppm	USP
CADMIUM	NOT MORE THAN 0.5ppm	USP
LEAD	NOT MORE THAN 0.5ppm	USP
MERCURY	NOT MORE THAN 0.2ppm	USP
FOREIGN AMINO ACIDS	NOT MORE THAN 0.5%	In-house
LOSS ON DRYING	NOT MORE THAN 0.20%	USP
RESIDUE ON IGNITION	NOT MORE THAN 0.10%	USP
ASSAY(DRY BASIS)	99.0 ~ 101.0%	USP
TOTAL COUNT (CFU)	NOT MORE THAN 1,000 /g	USP
YEASTS AND MOLDS (CFU)	NOT MORE THAN 100 /g	USP
COLIFORM	NEGATIVE /g	In-house

STATEMENT

We hereby certify that the commodity described above meets the requirements of residual solvents in those pharmacopoeias. Made in USA by fermentation using a non-pathogenic microbe and without animal origin raw materials.

Intended use for our product is as raw material or ingredient for further processing. Our product is not intended for API usage.

Our product is not intended for API usage

3 years from manufacturing date

STORAGE RETEST DATE Keep containers tightly closed in a dry, well-ventilated place at room temperature