



MASTERCHEM LIMITED

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L-LEUCINE

● DESCRIPTION

L-LEUCINE

is one of the most important amino acid to combine protein for human and animal body, an important material for amino acid transfusion. It is also the main intermediate for some medicines and broadly applied to food and drug industry.

CAS No.: 61-90-5

Chemical Formula: $C_6H_{13}NO_2$

Molecular Weight: 131.17

Quality Standard: USP24

PACKAGE: 25Kg drum with 1 layer foil liner and 1 layer PE bag

STORAGE: Be stored in cool and dry place

Shelf life: 2 years

● SPECIFICATION

ITEMS	SPECIFICATIONS	RESULTS
DESCRIPTION	WHITE CRYSTALS OR CRYSTALLINE POWDER	conform
ASSAY	98.5%	98.9%
IDENTIFICATION (INFRARED ABSORPTION)	CORRESPONDING TO REFERENCE SPECTRUM	conform
PH	5.5~7.0	6.2
SPECIFIC ROTATION $[\alpha]_D^{25}$ ° C	+14.9°~+17.3°	+15.5°
RESIDUE ON IGNITION	≤0.4%	0.15%
LOSS ON DRYING	≤0.2%	0.11%
CHLORIDE (CL)	≤0.05%	0.05%
IRON (FE)	≤30PPM	<30PPM
SULFATE (SO ₄)	≤300PPM	<300PPM
HEAVY METALS	≤15PPM	<15PPM
LEAD (PB)	≤5.0PPM	<5.0PPM
ARSENIC (AS)	≤3.0PPM	<3.0PPM
CADMIUM (CD)	≤1.0PPM	<1.0PPM
MERCURY (HG)	≤1PPM	<1PPM
TOTAL PLATE COUNT	≤1000 cfu/g	<5000 CFU/G
YEAST AND MOLDS	≤100 CFU/G	<100 CFU/G
E.COLI	NEGATIVE IN 1G	CONFIRMS
SALMONELLA	Absent in 10g	Negative
COLIFORMS	≤ 50 MPN/g	conform
CONCLUSION: UP TO THE STANDARD USP24		