

PRODUCT IDENTITY

PRODUCT NAME	L-Valine	PRODUCT NUMBER	L755656
Grades & Purity	UltraBio™, ≥99.5%(NT)	VERSION	3
CAS NUMBER	72-18-4	FORMULA	C ₅ H ₁₁ NO ₂
FORMULA WEIGHT	117.15g/mol		

ACCEPTANCE CRITERIA

PARAMETER	SPECIFICATION / LIMIT
Appearance(L755656)	White powder or crystals
Purity((NT)	99.5-100.5 (%)
Infrared spectrum	Conforms to Structure
specific rotation [α] ₂₀ /D(c=5 in 5M HCl)	26.5-27.5 (°)
Residue on ignition(Ash)	0-0.05 (%)
Chloride (Cl-)	0-50 (ppm)
Sulfate(SO ₄ ²⁻)	0-50 (ppm)
Aluminium(Al)	0-5 (ppm)
Arsenic(As)	0-0.1 (ppm)
Barium(Ba)	0-5 (ppm)

PARAMETER	SPECIFICATION / LIMIT
Bismuth(Bi)	0-5 (ppm)
Calcium(Ca)	0-50 (ppm)
Cadmium(Cd)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)
Chromium(Cr)	0-5 (ppm)
Copper(Cu)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Potassium(K)	0-50 (ppm)
Lithium(Li)	0-5 (ppm)
Magnesium (Mg)	0-5 (ppm)
Manganese(Mn)	0-5 (ppm)
Molybdenum(Mo)	0-5 (ppm)
NH4+	0-150 (ppm)
Sodium(Na)	0-100 (ppm)
Nickel(Ni)	0-5 (ppm)
Lead(Pb)	0-5 (ppm)
Strontium(Sr)	0-5 (ppm)

PARAMETER	SPECIFICATION / LIMIT
Zinc(Zn)	0-5 (ppm)