

Code No.22-0008

## SPECIFICATION

## L-Valine

## Guaranteed Reagent

REQUIREMENT	SPECIFICATION
* Appearance	White, crystals ~ crystalline powder
Assay (C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> ) (after drying)	min.99.0%(mass/mass)
Solubility in water	to pass test
pH of a 25g/L solution at 25°C	5.0~7.0
Specific rotation [ $\alpha$ ] <sub>D20</sub> (after drying)	+27.0~+28.5°
Loss on drying at 105°C	max.0.2%(mass/mass)
Residue after ignition (as sulfate)	max.0.05%(mass/mass)
Chloride (Cl)	max.0.02%(mass/mass)
Sulfate (SO <sub>4</sub> )	max.0.02%(mass/mass)
Lead (Pb)	max.0.001%(mass/mass)
Arsenic (As)	max.1ppm(mass/mass)
Iron (Fe)	max.0.001%(mass/mass)
Ammonium (NH <sub>4</sub> )	max.0.02%(mass/mass)
Foreign amino acids	to pass test

JIS K 9106 : 2020(\*:Additional test performed by Wako but not required by JIS)