

Code No.12-0085

## SPECIFICATION

## L-Leucine

## Guaranteed Reagent

| REQUIREMENT   | SPECIFICATION                        |
|---|--------------------------------------|
| * Appearance  | White, crystals ~ crystalline powder |
| Assay (C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> ) | min.99.0%(mass/mass)                 |
| Solubility in dil.hydrochloric acid                     | to pass test                         |
| pH of a 10g/L solution at 25°C                          | 5.5~7.0                              |
| Specific rotation [ $\alpha$ ]D <sub>20</sub>           | +14.7~+16.0°                         |
| Loss on drying at 105°C                                 | max.0.2%(mass/mass)                  |
| Residue after ignition (as sulfate)                     | max.0.05%(mass/mass)                 |
| Chloride (Cl)   | max.0.01%(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 9054 : 2020(\*:Additional test performed by Wako but not required by JIS)