

## SPECIFICATION

## L-Asparagine Monohydrate

## Guaranteed Reagent

REQUIREMENT	SPECIFICATION
* Appearance	White, crystals ~ crystalline powder
Assay (C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> ·H <sub>2</sub> O)	min.99.0%(mass/mass)
Solubility in water	to pass test
Specific rotation [ $\alpha$ ] <sub>D20</sub>	+30.3~+32.3°
Loss on drying at 130°C	11.5~12.5%(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)
Heavy metals (as 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 8021:2013(Amendment 1)(\* :Additional test performed by Wako but not required by JIS)