

## SPECIFICATION

## Lactose Monohydrate

## Guaranteed Reagent

REQUIREMENT	SPECIFICATION
* Appearance	White, crystalline powder ~ powder
Solubility in water	to pass test
Ethanol-soluble matter	max.0.2%(mass/mass)
Specific rotation [ $\alpha$ ]D20	+52.2~+52.8°
Loss on drying at 80°C	max.0.5%(mass/mass)
Residue after ignition (as sulfate)	max.0.05%(mass/mass)
pH of a 50g/l solution at 25°C	4.0~6.0
Nitrogen compounds (as N)	max.0.005%(mass/mass)
Heavy metals (as Pb)	max.5ppm(mass/mass)
Iron (Fe)	max.5ppm(mass/mass)
Dextrin and starch	to pass test

JIS K 8728:2011

\*:Additional test performed by Wako but not required by JIS