

SPECIFICATION

Sodium Chloride

for Medicine Test

REQUIREMENT	SPECIFICATION
* Appearance	White, crystals ~ crystalline powder
Assay (NaCl)	min.99.5%(mass/mass)
Solubility in water	to pass test
pH of a 50g/L solution at 25°C	5.0~8.0
Bromide (Br)	max.0.01%(mass/mass)
Iodide (I)	max.0.005%(mass/mass)
Phosphate (PO ₄)	max.5ppm(mass/mass)
Sulfate (SO ₄)	max.0.002%(mass/mass)
Nitrogen compounds (as N)	max.0.001%(mass/mass)
Potassium (K)	max.0.005%(mass/mass)
Copper (Cu)	max.2ppm(mass/mass)
Magnesium (Mg)	max.0.002%(mass/mass)
Calcium (Ca)	max.0.002%(mass/mass)
Barium (Ba)	max.0.001%(mass/mass)
Lead (Pb)	max.2ppm(mass/mass)
Iron (Fe)	max.2ppm(mass/mass)
Hexacyanidoferrate(II) [Fe(CN) ₆]	max.1ppm(mass/mass)
Assay (USP-NF)	minimum 99.0%
pH of a 5% solution at 25.0°C (USP-NF)	5.0~9.0
Insoluble matter (USP-NF)	maximum 0.005%
Iodide (I) (USP-NF)	maximum 0.002%
Bromide (Br) (USP-NF)	maximum 0.01%
Chlorate and nitrate (as NO ₃) (USP-NF)	maximum 0.003%
Phosphate (PO ₄) (USP-NF)	maximum 5ppm
Sulfate (SO ₄) (USP-NF)	maximum 0.004%
Barium (Ba) (USP-NF)	to pass test
Heavy metals (by ICP-OES) (USP-NF)	maximum 5ppm
Iron (Fe) (USP-NF)	maximum 2ppm
Calcium (Ca) (USP-NF)	maximum 0.002%

Magnesium (Mg) (USP-NF)	maximum 0.001%
Potassium (K) (USP-NF)	maximum 0.005%
Appearance of solution (Ph.Eur.)	to pass test
Acidity or alkalinity (Ph.Eur.)	to pass test
Bromides (Ph.Eur.)	maximum 100ppm
Ferrocyanides (Ph.Eur.)	to pass test
Iodides (Ph.Eur.)	to pass test
Nitrites (Ph.Eur.)	to pass test
Phosphates (Ph.Eur.)	maximum 25ppm
Sulphates (Ph.Eur.)	maximum 200ppm
Arsenic (Ph.Eur.)	maximum 1ppm
Barium (Ph.Eur.)	to pass test
Iron (Ph.Eur.)	maximum 2ppm
Magnesium and alkaline-earth metals (Ph.Eur.)	maximum 100ppm
Heavy metals (Ph.Eur.)	maximum 5ppm
Loss on drying (Ph.Eur.)	maximum 0.5%
Assay (Ph.Eur.)	99.0~100.5%

JIS K 8150:2022(*:Additional test performed by Wako but not required by JIS)