

SPECIFICATION

Potassium Dihydrogen Phosphate
for Medicine Test

REQUIREMENT	SPECIFICATION
* Appearance	White, crystals ~ crystalline powder
Assay (KH ₂ PO ₄)	min.99.5%(mass/mass)
Solubility in water	to pass test
Loss on drying at 105°C	max.0.2%(mass/mass)
pH of a 50g/l solution at 25°C	4.2~4.5
Chloride (Cl)	max.5ppm(mass/mass)
Nitrate	to pass test
Sulfate (SO ₄)	max.0.003%(mass/mass)
Heavy metals (as Pb)	max.0.001%(mass/mass)
Sodium (Na)	max.0.02%(mass/mass)
Arsenic (As)	max.1ppm(mass/mass)
Iron (Fe)	max.0.001%(mass/mass)
Ammonium (NH ₄)	max.0.001%(mass/mass)
Assay (USP-NF)	min.99.0%
pH of a 5% solution at 25.0°C (USP-NF)	4.1~4.5
Insoluble matter (USP-NF)	max.0.01%
Loss on drying (USP-NF)	max.0.2%
Chloride (Cl) (USP-NF)	max.0.001%
Sulfate (SO ₄) (USP-NF)	max.0.003%
Heavy metals (as Pb) (USP-NF)	max.0.001%
Iron (Fe) (USP-NF)	max.0.002%
Sodium (Na) (USP-NF)	max.0.005%
Appearance of solution (Ph.Eur.)	to pass test
pH (Ph.Eur.)	4.2~4.5
Reducing substances (Ph.Eur.)	to pass test
Chlorides (Ph.Eur.)	max.200ppm
Sulphates (Ph.Eur.)	max.300ppm
Arsenic (Ph.Eur.)	max.2ppm
Iron (Ph.Eur.)	max.10ppm

Sodium (Ph.Eur.)	max.0.1%
Heavy metals (Ph.Eur.)	max.10ppm
Loss on drying (Ph.Eur.)	max.2.0%
Assay (Ph.Eur.)	98.0~100.5%

JIS K 9007:2014 (Amendment 1)
(*:Additional test performed by Wako but not required by JIS)