

Product Specification

SATUMA KAKO CO., LTD

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Product : Sodium Citrate Hydrate

Grade : The Japanese Pharmacopoeia seventeenth edition

Item	Standard Data
Description	Sodium Citrate Hydrate occurs as colorless crystals, or a white crystalline powder. It is odorless, and has a cooling, saline taste. It is freely soluble in water, and practically insoluble in ethanol (95) and in diethyl ether.
Identification	A solution of Sodium Citrate Hydrate (1 in 20) responds to the Qualitative Tests for citrate and for sodium salt.
pH	7.5 ~ 8.5
Clarity and color of solution	A solution of 1.0 g of Sodium Citrate Hydrate in 10 mL of water is clear and colorless.
Chloride	0.015 % Max
Sulfate	0.048 % Max
Heavy metals	10 ppm Max
Arsenic	2 ppm Max
Tartrate	To a solution of 1.0 g of Sodium Citrate Hydrate in 2 mL of water add 1 mL of potassium acetate TS and 1 mL of acetic acid (31): no crystalline precipitate is formed after the sides of the tube have been rubbed with a glass rod.
Oxalate	Dissolve 1.0 g of Sodium Citrate Hydrate in a mixture of 1 mL of water and 3 mL of dilute hydrochloric acid, add 4 mL of ethanol (95) and 0.2 mL of calcium chloride TS, and allow to stand for 1 hour: the solution is clear.
Readily carbonizable substances	The solution has no more color than Matching Fluid K.
Loss on drying	10.0 ~ 13.0 %
Assay	99.0 ~ 101.0 % (As Anhydrous)