

Aluminium hydroxide, dried gel

Meets USP 41-NF 36, EP 9.0, JP 17 and BP 2016 testing specifications

Product Code: TC550M

Product Description :

Molecular weight: 78

CAS No.: 21645-51-2

Quality Control:

Appearance (JP)

White, amorphous powder

Appearance (EP, BP)

White or almost white, amorphous powder.

Solubility (JP)

Practically insoluble in water, in ethanol (95) and in diethyl ether.

Solubility (EP, BP)

Practically insoluble in water. It dissolves in dilute mineral acids and in solutions of alkali hydroxides.

pH (4% in water at 25°C) : (USP)

NMT 10.00

Identification (JP)

The supernatant liquid responds to the qualitative tests for aluminum salt.

Identification A (USP)

Matches with the standard pattern

Identification B (USP)

The solution responds to the tests for Aluminium

Appearance of solution (BP, EP)

Solution S is not more opalescent than reference suspension II and not more intensely coloured than reference solution GY6

Acidity or alkalinity (JP)

The supernatant liquid is neutral

Chloride (JP)

$\leq 0.284\%$

Chloride (EP, BP)

$\leq 1.00\%$

Chloride (USP)

$\leq 0.85\%$

Sulfate (JP)

$\leq 0.480\%$

Sulfate (BP, EP)

$\leq 1.00\%$

Sulfate (USP)

$\leq 0.60\%$

Nitrate (JP)

No brown-colored ring is produced at the zone of contact.

Heavy metals (JP)

$\leq 0.0010\%$

Heavy metals (BP, USP)

$\leq 0.0060\%$

Arsenic (JP)

$\leq 0.0005\%$

Arsenic (BP, EP)

$\leq 0.0004\%$

Arsenic (USP)

$\leq 0.0008\%$

Acid-consuming capacity (JP)

The volume of 0.1M hydrochloric acid VS consumed is not less than 250 mL/g of dried aluminum hydroxide gel.

Alkaline impurities (BP, EP)

Any pink colour disappears on the addition of 0.3 mL of 0.1M hydrochloric acid

Acid-neutralizing capacity (USP)

Min. 25.0 mEq/g

Neutralizing capacity (EP, BP)

NMT 35.0 mL of 0.1M sodium hydroxide is required

Microbial contamination : TAMC (BP, EP)

NMT 1000.00 cfu/gm

Microbial contamination : TYMC (BP, EP)

NMT 100.00 cfu/gm

Assay (Zinc acetate Titration, as Al_2O_3): JP

NLT 50.00%

Assay (Zinc sulfate titration, as Al(OH)₃: USP

NLT 76.50%

Assay (EDTA titration, Al₂O₃) : EP, BP

47.00 -60.00

Storage and Shelf Life:

Store below 30°C away from bright light.

Shelf life is 48 months.

Use before expiry date given on the product label.

Revision : 0 / 2019



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