



Certificate of Analysis

Sodium Thiosulfate Pentahydrate ACS/USP-NF/FCC/BP/EP/JP

Catalog Number: ST1009
Lot Number: 0623703
CAS Number: 10102-17-7
Molecular Formula: $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
Molecular Weight: 248.19
Storage: 15°C – 30°C
Date of Manufacture: December 15, 2015
Retest Date: December 14, 2020

Test	Specification	Result
Appearance	White crystals	Conforms
Assay (Titration)	99.5 – 100.5%	100.39%
Melting Point	~ 48°C	48°C
Solubility	Very soluble in water, insoluble in alcohol	Conforms
Appearance of 10% solution	Clear & colorless	Conforms
pH (5%)	6.0 – 8.4	6.46
pH (10%)	6.0 – 8.0	6.42
Moisture (LOD)	32.0 – 37.0%	33.4%
Insoluble Material	≤ 0.005%	0.003%
Sulfate & Sulfite (SO_4)	≤ 0.1%	< 0.1%
Sulfide	To pass test	Conforms
Nitrogen Compounds	≤ 0.002%	< 0.002%
Heavy Metals	≤ 10ppm	< 10ppm
Arsenic	≤ 5ppm	< 5ppm
Calcium	To pass test	Conforms
Lead	≤ 2mg/kg	1mg/kg
Selenium	≤ 0.003%	< 0.003%

Approved by:

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