

Certificate of Analysis

Date of Testing: 2024-12-14 09:14:43

Date of Next Testing: 2028-12-13 09:14:43

Product Name: **Sulfobetaine 12**

CAS Number: 14933-08-5

Specifications & Purity: $\geq 98\%$

Lot #: L2406682

SKU #: **S105512**

Version: **2**

Analysis #: **438929**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Ignition Residue	0-0.1 (%)	0.00 %
Nitrogen by Elemental Analysis	3.9-4.4 (%)	4.19 %
Zinc(Zn)	0-5 (ppm)	0.00 ppm
Carbon by Elemental Analysis	59.4-61 (%)	60.76 %
Insoluble matter	0-0.1 (%)	0.00 %
Calcium(Ca)	0-0.002 (%)	0.00 %
Copper(Cu)	0-5 (ppm)	0.00 ppm
Potassium(K)	0-50 (ppm)	0.00 ppm
Phosphate(PO ₄)	0-5 (ppm)	0.00 ppm
Chloride (Cl ⁻)	0-0.05 (%)	0.00 %
Purity(HPLC)	98-100 (%)	99.84400 %
Iron(Fe)	0-5 (ppm)	0.00 ppm
Hydrogen by Elemental Analysis	10.7-11.3 (%)	11.00 %
Aluminum(Al)	0-5 (ppm)	0.00 ppm
Magnesium(Mg)	0-5 (ppm)	0.00 ppm
(Pb)Lead	0-0.001 (%)	0.00 %
Sodium(Na)	0-50 (ppm)	3.81 ppm
Ammonia (NH ₄)	0-500 (ppm)	500.00 ppm
Sulfur by Elemental Analysis	9.15-9.75 (%)	9.15 %
Appearance (S105512)	White powder	White powder
Solubility in Water	almost transparency	almost transparency
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager