

Certificate of Analysis

| | |
|--------------------------|--------------------------------|
| Date of Testing: | 2023-10-11 09:30:42 |
| Date of Next Testing: | 2026-10-10 09:30:42 |
| Product Name: | Sodium pentanesulfonate |
| CAS Number: | 22767-49-3 |
| Specifications & Purity: | BioReagent Plus |
| Lot #: | J2309582 |
| SKU # | S432350 |
| Analysis: | 280243 |

| Parameter | Limit Values | Result |
|---|-----------------------|-----------------------|
| Purity(Ion exchange titration) | 99-102.5 (%) | 99.73% |
| Insoluble matter | 0-0.1 (%) | 0.00% |
| Aluminum(Al) | 0-0.0005 (%) | 0.00% |
| Calcium(Ca) | 0-0.001 (%) | 0.00% |
| Copper(Cu) | 0-0.0005 (%) | 0.00% |
| Iron(Fe) | 0-0.0005 (%) | 0.00% |
| Lead(Pb) | 0-0.001 (%) | 0.00% |
| Magnesium(Mg) | 0-0.0005 (%) | 0.00% |
| Phosphorus (P) | 0-0.001 (%) | 0.00% |
| Zinc(Zn) | 0-0.0005 (%) | 0.00% |
| Potassium(K) | 0-0.005 (%) | 0.00% |
| Chloride Content | 0-0.05 (%) | 0.00% |
| Ammonia (NH ₄) | 0-0.05 (%) | 0.00% |
| Appearance(S432350) | White Powder | White powder |
| Solubility(0.5M in Water at 20 Degrees Celsius),Clear Colorless | Pass | Pass |
| ICP: Confirms Sodium Component | Confirmed | Confirmed |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager