

Certificate of Analysis

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|--------------------------|---------------------------------|
| Date of Testing: | 2023-01-06 17:05:10 |
| Date of Next Testing: | 2027-01-05 17:05:10 |
| Product Name: | Sodium glycodeoxycholate |
| CAS Number: | 16409-34-0 |
| Specifications & Purity: | ≥97% |
| Lot #: | A2303087 |
| SKU # | S102123 |
| Version | 1 |
| Analysis #: | 128142 |

| Parameter | Limit Values | Result |
|--|---|---|
| Magnesium(Mg) | 0-0.001 (%) | 0.00 % |
| Ammonia (NH4) | 0-0.05 (%) | 0.02 % |
| Calcium(Ca) | 0-0.005 (%) | 0.00 % |
| Zinc(Zn) | 0-0.0005 (%) | 0.00 % |
| Lead(Pb) | 0-0.001 (%) | 0.00 % |
| Insoluble matter | 0-0.1 (%) | 0.03 % |
| Aluminum(Al) | 0-0.0005 (%) | 0.00 % |
| Water by Karl Fischer | 0-8 (%) | 5.68 % |
| Iron(Fe) | 0-0.001 (%) | 0.00 % |
| Chloride Content | 0-1 (%) | 0.72 % |
| Potassium(K) | 0-0.005 (%) | 0.00 % |
| Copper(Cu) | 0-0.0005 (%) | 0.00 % |
| Phosphorus (P) | 0-0.001 (%) | 0.00 % |
| Sulfur(S) | 0-1 (%) | 0.74 % |
| Melting point | 205-209 (°C) | 206.79000 °C |
| Purity(HPLC) | 97-100 (%) | 97.17000 % |
| Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O) (dry basis) | 41-45 (°) | 41.20000 ° |
| Appearance (S102123) | White to Off-White Solid, Powder, or Crystals | White to Off-White Solid, Powder, or Crystals |
| Solubility in H ₂ O , colorless and clear (0.1M) | pass | Pass |



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

John Su
QA & QC Manager