

Certificate of Analysis

Date of Testing: 2022-11-04 15:06:50

Date of Next Testing: 2026-11-03 15:06:50

Product Name: **Tauroursodeoxycholic Acid Dihydrate**

CAS Number: 117609-50-4

Specifications & Purity: 98%

Lot #: J2227553

SKU # **S101371**

Analysis: 134299

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	98.86400 %
Purity(Neutralization titration) (after drying)	98-102 (%)	99.60 %
Specific Rotation $[\alpha]_{20/D(c=0.5 \text{ in H}_2\text{O})}$	42-48 (°)	43.15 °
Water by Karl Fischer	6-7.4 (%)	7.40 %
Appearance (S101371)	white powder	White powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in hot H ₂ O	almost transparency	almost transparency
Infrared spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager