

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-08-22 17:07:12  
Date of Next Testing: 2027-08-21 17:07:12  
Product Name: **Cholesteryl stearate**  
CAS Number: 35602-69-8  
Specifications & Purity:  $\geq 97.0\%$   
Lot #: H2316327  
SKU #: **C113862**  
Analysis: **256418**

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20}^D(c=2 \text{ in } \text{CHCl}_3)$	-25--21 ( $^{\circ}$ )	-23.11 $^{\circ}$
Purity(HPLC)	97-100 (%)	98.26600 %
Appearance (C113862)	White to off-white solid	White to off-white solid
cholesteric phase to smectic phase	75.5 $^{\circ}\text{C}$	75.5 $^{\circ}\text{C}$
crystalline phase to isotropic phase	83 $^{\circ}\text{C}$	83 $^{\circ}\text{C}$
isotropic phase to cholesteric phase	79.5 $^{\circ}\text{C}$	79.5 $^{\circ}\text{C}$
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility,Colorless to Pale Yellow,Clear,25mg/ml in $\text{CHCl}_3$	pass	Pass



John Su  
QA & QC Manager