

## Certificate of Analysis

Date of Testing: 2023-06-06 17:33:05  
Date of Next Testing: 2026-06-05 17:33:05  
Product Name: **cis-3,5-dimethylmorpholine hydrochloride**  
CAS Number: 154596-17-5  
Specifications & Purity: 97%  
Lot #: E2330486  
SKU #: **C174523**  
**Analysis:** **216214**  
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(NMR)	97-100 (%)	99.23 %
Purity(Titration by AgNO <sub>3</sub> )	96.5-102.5 (%)	102.23 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance(C174523)	White to off-white solid	White to off-white solid



John Su  
QA & QC Manager