

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-02 15:46:40  
Date of Next Testing: 2025-06-01 15:46:40  
Product Name: **Methacholine Chloride**  
CAS Number: 62-51-1  
Specifications & Purity:  $\geq 98.0\%$   
Lot #: E2329825  
SKU #: **O135659**  
Version: **1**  
Analysis #: **224021**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$ , Argon charged

Parameter	Limit Values	Result
Purity(Nonaqueous Titration)	97.5-102.5 (%)	100.80 %
Melting point	170-174 ( $^{\circ}\text{C}$ )	171.40000 $^{\circ}\text{C}$
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in Methanol	almost transparency	almost transparency
Appearance(O135659)	White to Almost white powder to crystal	White to Almost white powder to crystal



John Su  
QA & QC Manager