

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-12-13 12:48:26  
Date of Next Testing: 2026-12-12 12:48:26  
Product Name: **1-(4-Trifluoromethylphenyl)piperazine**  
CAS Number: 30459-17-7  
Specifications & Purity: >98.0%(GC)(T)  
Lot #: L2209145  
SKU #: **T162689**  
Analysis: **167421**

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.15%
Purity (Titration by HClO <sub>4</sub> ,0.1M)	97.5-102.5 (%)	98.30%
Melting point	87-92 (°C)	90.20000 °C
Appearance (T162689)	Colorless to White to light Yellow Solid	Colorless to White to light Yellow Solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager