

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-06-22 16:12:41  
Date of Next Testing: 2026-06-21 16:12:41  
Product Name: **Zsm-11 molecular sieve**  
CAS Number:  
Specifications & Purity: Sodium type BETspecific surface area m2/g:160 SiO2/Al2O3 mol:25-30  
Lot #: F2220213  
SKU #: **M196709**  
**Analysis: 092998**

Parameter	Limit Values	Result
Relative crystallinity	95-100 (%)	97.10%
loss on Ignition	0-5 (%)	5.00%
Specific Surface Area	≥160 (m2/g)	160.00 m2/g
Na2O	0-0.1 (%)	0.10%
Particle size	1-2 (μm)	1.23 μm
pore size	≥0.5 (nm)	0.50 nm
SiO2/Al2O3(25-30 mol/mol)	25-30 mol/mol	25-30 mol/mol



John Su  
QA & QC Manager