

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-06-01 14:23:29  
Date of Next Testing: 2026-05-31 14:23:29  
Product Name: **(S)-(-)-1,2,4-Butanetriol**  
CAS Number: 42890-76-6  
Specifications & Purity: 96%, ee 99+%  
Lot #: C2228145  
SKU #: **S102777**  
**Analysis: 071604**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Optical purity(HPLC)(ee)	99-100 (%)	99.21 %
Purity(GC)	96-100 (%)	96.23 %
Appearance (S102777)	Colorless to light yellow liquid	Colorless to light yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager