

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-11-08 08:54:31

Date of Next Testing: 2029-11-07 08:54:31

Product Name: **2,3-Butanediol(mixture of stereoisomers)**

CAS Number: 513-85-9

Specifications & Purity: $\geq 98\%$

Lot #: K2505016

SKU #: **B103428**

Version: **0**

Analysis #: **335054**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Refractive index n _{20/D}	1.427-1.442	1.43410
Purity(GC)(Total of Diastereoisomers)	98-100 (%)	98.05200 %
Density (25°C)	0.982-1.015	0.99840
Appearance (B103428)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager