

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-01 15:09:01
 Date of Next Testing: 2027-06-30 15:09:01
 Product Name: **Ethyl (R)-(-)-3-hydroxybutyrate**
 CAS Number: 24915-95-5
 Specifications & Purity: $\geq 98\%$
 Lot #: F23271233
 SKU #: **E118391**
 Version: **0**
 Analysis #: **231454**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Optical purity(ee)	99-100 (%)	99.50000 %
Density (20°C)	1.013-1.016	1.01400
Refractive index n _{20/D}	1.42-1.423	1.42150
Purity(GC)	98-100 (%)	99.59300 %
Specific Rotation [α] _{20/D}	-20--16 (°)	-18.85900 °
Appearance (E118391)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager