

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-06 11:07:22
 Date of Next Testing: 2026-07-05 11:07:22
 Product Name: **Ethyl (R)-(-)-3-hydroxybutyrate**
 CAS Number: 24915-95-5
 Specifications & Purity: $\geq 98\%$
 Lot #: F2229104
 SKU #: **E118391**
 Version: **0**
 Analysis #: **109542**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Optical purity(ee)	99-100 (%)	99.13000 %
Density (20°C)	1.013-1.016	1.01500
Specific Rotation $[\alpha]_{20/D}$	-20--16 (°)	-18.86400 °
Refractive index $n_{20/D}$	1.42-1.423	1.42140
Purity(GC)	98-100 (%)	98.23800 %
Appearance (E118391)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager