

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-09-28 11:18:44
Date of Next Testing: 2026-09-27 11:18:44
Product Name: **Isovaleryl-L-carnitine**
CAS Number: 31023-24-2
Specifications & Purity: $\geq 94\%$ (HPLC)
Lot #: I2304034
SKU #: **I463320**
Version: **1**
Analysis #: **258478**
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	94-100 (%)	98.69%
Water by Karl Fischer	0-10 (%)	8.86%
Specific Rotation [α] ₂₀ /D(c=1 in H ₂ O)	-25~-21 (°)	-21.01°
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Appearance(I463320)	White to Off White Powder or Crystals or Colorless Viscous Liquid	White to Off White Powder or Crystals or Colorless Viscous Liquid



John Su
QA & QC Manager