

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-08-29 13:16:51
 Date of Next Testing: 2026-08-28 13:16:51
 Product Name: **(+)-Biotin 4-Nitrophenyl Ester**
 CAS Number: 33755-53-2
 Specifications & Purity: $\geq 98\%$ (HPLC)
 Lot #: H2224186
 SKU #: **B152152**
 Version: **0**
 Analysis #: **114512**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.42800 %
Melting point	163-167 (°C)	165.36000 °C
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in DMF in calcd.on anh.substance})$	48-52 (°)	49.50600 °
Appearance (B152152)	White to Light Yellow Powder or Solid or chunks	White to Light Yellow Powder or Solid or chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager