

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-13 10:27:14
 Date of Next Testing: 2026-06-12 10:27:14
 Product Name: **Mandyphos SL-M004-1**
 CAS Number: 494227-37-1
 Specifications & Purity: $\geq 97\%$
 Lot #: F2306602
 SKU #: **S464300**
Analysis: **215564**
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Carbon by Elemental Analysis	70.80-75.18 (%)	72.27 %
Specific rotation [α] ₂₀ /D(C=1, CHCl ₃)	-70~-60 (°)	-67.20°
Appearance(S464300)	Light Yellow to Very Dark Yellow and Orange-red to Very Dark Orange Powder or Crystals	Light Yellow to Very Dark Yellow and Orange-red to Very Dark Orange Powder or Crystals
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Phosphorus NMR spectrum	conforms to structure	Conforms to Structure



John Su
QA & QC Manager