

Certificate of Analysis

Date of Testing: 2023-06-13 10:24:58
Date of Next Testing: 2026-06-12 10:24:58
Product Name: **Mandyphos SL-M004-1**
CAS Number: 494227-37-1
Specifications & Purity: $\geq 97\%$
Lot #: F2306600
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