

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-17 15:36:26
 Date of Next Testing: 2024-12-16 15:36:26
 Product Name: **HydroxocobalaminAcetate**
 CAS Number: 22465-48-1
 Specifications & Purity: $\geq 97\%$
 Lot #: L2212050
 SKU #: **H133745**
 Version: **1**
 Analysis #: **150034**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	95-100 (%)	99.65900 %
Water by Karl Fischer	0-12 (%)	11.18400 %
Carbon by Elemental Analysis(on dry basis)	54-56.7 (%)	54.35200 %
Nitrogen by Elemental Analysis(on dry basis)	12.7-13.5 (%)	12.91400 %
Appearance (H133745)	red to brown powder	red to brown powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Dark Red,Clear,25 mg/mL	pass	Pass
ICP: Confirms Cobalt Component	Confirmed	Confirmed



John Su
QA & QC Manager