

Certificate of Analysis

Date of Testing: 2022-08-31 10:11:14

Date of Next Testing: 2026-08-30 10:11:14

Product Name: **Vitamin B12**

CAS Number: 68-19-9

Specifications & Purity: 98%

Lot #: H2223538

SKU #: **V104140**

Analysis: **125023**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.20000 %
Purity(UV method)	98-102 (%)	99.32 %
total bacterial count	0-800 (cfu/μl)	326.20 cfu/μl
Total impurities	0-3 (%)	1.63 %
Loss on drying	0-10 (%)	1.20 %
abs-ratio(2a/2b)(E550/E361)	0.29-0.32	0.31
abs-ratio(a/b)(E278/E361)	0.53-0.59	0.55
Appearance (V104140)	Red to Very Dark Red Crystals or Powder	Red to Very Dark Red Crystals or Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , Dark Red, 10 mg/ml	pass	Pass



John Su
QA & QC Manager