



XI'AN BIOF BIO-TECHNOLOGY CO.,LTD

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Certificate of Analysis

Product Name	Cobalamin (vitamin B12)	Manufacture Date	2022.12.16
Specification	EP	Certificate Date	2022.12.17
Batch Quantity	100kg	Expiration Date	2024.12.15
Storage Condition	Store in cool & dry place, Keep away from strong light and heat.		

Item	Specification	Result
Appearance	Dark red crystal powder	Dark red crystal powder
Odor	There is no special odor	There is a no special odor
Assay	97.0%-102.0%	99.2%
UV : A361nm/A550nm	3.15-3.40	3.24
UV : A361nm/A278nm	1.70-1.90	1.88
Solubility	Insoluble in cold water	conform
Loss on dry	≤10.0%	2.93%
Impurity	≤3.0%	0.93%
Heavy Metal	Less than (LT) 20 ppm	Less than (LT) 20 ppm
Pb	<2.0ppm	<2.0ppm
As	<2.0ppm	<2.0ppm
Hg	<2.0ppm	<2.0ppm
Total aerobic Bacteria count	< 10000cfu/g	< 10000cfu/g
Total Yeast & Mold	< 1000cfu/g	Conform
E. Coli	Negative	Negative

QA Manager : L i Yu

QC Manager : Zhang Qing

Analyst : Liang Wanyu

