XI'AN HARMONIOUS NATURAL BIOTECHNOLOGY CO.,LTD



Address:No.8 Port Avenue ,Xi'an International Trade & Logistics Park ,Xi'an ,China Tel:+86-29-86712509

www.xahnb.com

Email: james@xahnb.com http://xahnb.en.alibaba.com/

CERTIFICATE OF ANALYSIS

Product Name		Vitamin B ₁₂ (Cyanocobalamine)	Country of Origin	P. R. China
Batch No.		HNB211228	Manufacture Date	Dec. 28th, 2021
Quantity:		50Kg	Analysis Date	Dec. 29th, 2021
Analysis Items		Specification	Result	Test Method
Assay (dried basis)		96.0%-102.0%	98.4%	UV
Physical Control				
Identification	A	A361nm/A278nm:1.70-1.90	1.38	UV
		A361nm/A550nm:3.15-3.40	3.30	
	В	Positive	Complies	Colorimetry
	C	The retention time of major peak of the	Complies	HPLC
		sample solution corresponds to that of the		
		standard solution.		
Characteristics		Dark red crystal or crystalline Hygroscopic	Complies	Visual Method
		powder, with no smell and no taste.		
Loss on Drying		≤12.0%	2.70%	USP(731)
Chemical Control				
Total impurities		≤3.0%	1.7%	HPLC
7β、8β-lactocyanocobalamin		≤1.0%	0.4%	HPLC
50-carboxycyanocobalamin		≤0.5%	0.1%	HPLC
34-methylcyanocobalamin		≤2.0%	Not detected	HPLC
32-carboxycyanocobalamin		≤1.0%	0.2%	HPLC
8-Epi-cyanocobalamin		≤1.0%	0.02%	HPLC
Any other unidentified impurity		≤0.5%	0.4%	HPLC
Residual solvents(Acetone)		≤0.5%	0.27%	In house
Microbiological Con	itrol			
Total Plate Count		1000cfu/g Max	Complies	USP(2021)
Yeast & Mold		100cfu/g Max	Complies	USP(2021)
E.Coli		Negative	Negative	USP(2022)
Packing and Storage	e			
Conclusion		This product complied with specification of USP35 and in house standard		
Packing		100g/alumilium tin.		
Storage		Store in a well-closed container away from moisture.		
Storage		Store in a well-closed container away from n	noisture.	
Storage Shelf Life		Store in a well-closed container away from n 2 years if sealed and stored under the recomm		

QC MANAGER:

正章用

INSPECTOR: 杨思.莲