



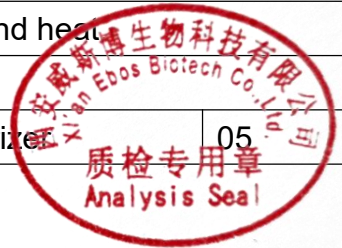
Ebos

# Xi'an Ebos Biotech Co., Ltd.

## Certificate of Analysis

Product Name:	<b>Cyanocobalamin(Vitamin B12)</b>	Manufacture Date:	2024-04-08
Batch No.:	Ebos-240408	Test Date:	2024-04-08
Packing	0.1kg/tin	Expiration Date:	2026-04-07
Quantity:	49kg	According as:	USP 43 and in house standard

TEST ITEMS	SPECIFICATIONS	RESULTS	MOA		
Characters	Dark red crystals or amorphous or crystalline red powder.	Complies	Visual method		
Identification A	UV: The absorption spectrum exhibits maxima at 278±1nm, 361±1nm, and 550±2nm.	Complies	USP monograph		
	A <sub>361nm</sub> /A <sub>278nm</sub> : 1.70~1.90 A <sub>361nm</sub> /A <sub>550nm</sub> : 3.15~3.40	1.83 3.25			
Identification B	Cobalt: Meets USP requirements	Complies	USP monograph		
Identification C	HPLC: The retention time of the major peak of the sample solution corresponds to that of the standard solution.	Complies	USP monograph		
Loss on drying	≤10.0%	5.6%	USP monograph /USP<731>		
Assay	97.0%~102.0%	99.0%	USP monograph		
Related substances	Total impurities≤3.0 %	1.4%	USP monograph		
	7β,8β-Lactocyanocobalamin≤1.0 %	0.6%			
	34-Methylcyanocobalamin ≤2.0 %	0.1%			
	8-Epi-cyanocobalamin ≤1.0 %	0.2%			
	Any other unidentified impurity, 50-Carboxycyanocobalamin and 32 Carboxycyanocobalamin ≤0.5%	0.2%			
Acetone	≤5000ppm	12ppm	In house/(GC) SOP-QC-001-04-09		
The total aerobic microbial count	≤1000 cfu/g	30cfu/g	ChP 2020 <1105>		
The total yeasts /mould count	≤100 cfu/g	<10cfu/g	ChP 2020 <1105>		
Conclusion	The product complies with the specification of USP 43 and in house standard.				
Storage	Store in a cool and dry place, keep away from direct strong and heat.				
Shelf Life	Two years if sealed and store away from direct sun light.				
Tester	01	Checker	06	Authorized	05



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