



HEBEI HUARONG PHARMACEUTICAL CO., LTD.

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Certificate of Analysis

Product: Cyanocobalamin Cert. No.: 01240902501
Batch No. 012409025 Mfg. Date: Sep.12,2024
Weight: 30070g Cert. Date: Sep.19,2024
Retest Date: Sep.11,2029

Test item	Specifications	Results
Characters	Dark red crystals or crystalline red powder	Complies
Solubility	Sparingly soluble in water and in ethanol(96 percent),practically insoluble in acetone	Complies
Identification A (UV)	Absorption maxima at278±1nm, 361±1nm and 550±2nm A361/A278 nm 1.70-1.90 A361/A550 nm 3.15-3.40	Complies 1.85 3.28
Identification B (Chemistry)	Positive	Positive
Identification C (HPLC)	The retention time of the major peak of the sample solution corresponds to that of the standard solution	Complies
Loss on drying	≤12.0%	4.2%
Assay(on dry basis) (UV)	96.0~102.0%	99.2%
Related substances (HPLC)		
Total impurities	≤3.0%	0.9%
7β,8β-Lactocyanocobalamin	≤1.0%	<0.03%
50-Carboxycyanocobalamin	≤0.5%	0.03%
32-Carboxycyanocobalamin	≤2.0%	<0.03%
34-Methylcyanocobalamin	≤1.0%	0.4%
8-Epi-Cyanocobalmin	≤1.0%	<0.03%
Any other unidentified impurity	≤0.5%	0.2%
Residual solvent (GC)		
Acetone	≤0.5%	0.006%
Total plate count (Plate culture)	≤1000cfu/g	<10cfu/g
Yeasts & Moulds	≤100cfu/g	<10cfu/g
Bacterial endotoxins	<200EU/mg	<200EU/mg

Conclusion: This product complies with the specifications of USP 2024.

Edited by: 孙晓茹

Checked by: 张静月

Approved by: 张静月

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