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Certificate of Analysis

Product: Cyanocobalamin Cert. No.: 01241200202
Batch No. 012412002 Mfg. Date : Dec.01,2024
Weight: 24560g Cert. Date : Dec.09,2024
Retest Date: Nov.30,2029

Test item	Specifications	Results
Characters	Dark red crystals or crystalline red powder	Complies
Identification A (UV)	Absorption maxima at 278±1nm, 361±1nm and 550±2nm	Complies
	A361/A278 nm 1.70-1.90	1.85
	A361/A550 nm 3.15-3.40	3.24
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%	4.7%
Assay (on dry basis) (UV)	96.0~102.0%	99.2%
Related substances (HPLC)		
Total impurities	≤3.0%	1.1%
7β,8β-Lactocyanocobalamin	≤1.0%	Not Detected
50-Carboxycyanocobalamin	≤0.5%	0.1%
32-Carboxycyanocobalamin	≤2.0%	Not Detected
34-Methylcyanocobalamin	≤1.0%	0.4%
8-Epi-Cyanocobalamin	≤1.0%	0.1%
Any other unidentified impurity	≤0.5%	0.2%
Residual solvent (GC)		
Acetone	≤0.5%	0.014%
Total plate count (Plate culture)	≤1000cfu/g	<10cfu/g
Yeasts & Moulds	≤100cfu/g	<10cfu/g



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

Edited by: 孙晓茹

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Checked by: 杜林森

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