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Specification Sheet

Product and Batch Information			
Product Name:	Vitamin B12 (Cyanocobalamin)	According :	USP36 / In house standard
Analysis Item	**Specification**	**Test Method**	
Active Ingredients			
Assay	97% ~ 102%	USP Monograph	
Physical Control			
Identification	A: A351nm/A278nm : 1.70 ~ 1.90 A361nm/A550nm : 3.15 ~ 3.40	USP Monograph	
	B: Meets USP requirement	USP Monograph	
	C: HPLC - The retention time of the major peak of the sample solution corresponds to that of the standard solution	USP Monograph	
Appearance	Dark red crystalline powder or dark red crystals	Visual	
Loss on Drying	≤10%	USP Monography / USP<731>	
Related substances	Total impurities ≤3%	USP Monograph	
	7β, 8β - Lactocyanocobalamin ≤1%		
	34 - Methylcyanocobalamin ≤2%		
	8-Epi-cyanocobalamin ≤1%		
	Any other impurity (include 50-Carboxycyanocobalamin, 32-Carboxycyanocobalamin)≤0.5%		
Residual Solvent	Acetone ≤0.5%	In house/ (GC)	
Chemical Control			
Heavy Metal	≤10ppm	USP231	
Arsenic	≤2 ppm	USP231	
Cadmium	≤1 ppm	USP231	
Lead	≤2 ppm	USP231	
Mercury	≤1 ppm	USP231	
Microbiological Control			
Total plate count	≤800 cfu/g	USP<2021>	
Yeast & Mold	≤80 cfu/g	USP<2021>	
E.Coli	Negative	USP<2022>	
Conclusion	The product complies with the specification of USP36 and in house standard.		

Note: The above information is based on the specification sheet received from the manufacturer of this product and not intended as a substitute for strict quality control analysis by the purchaser of this product.

Reviewed by : _____

Abdullah Malik (QA)