



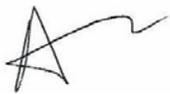
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Specification Sheet

Product and Batch Information		
Product Name:	Vitamin B12 (Cyanocobalamin) Mannitol	Accordinging : USP36 / In house standard
Origin:	Canada	
Analysis Item	Specification	Test Method
Active Ingredients		
Assay	1.00%	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)