



Technical Data Sheet

Vitamin B12 Cyanocobalamin 97-102% P.

PRODUCT INFORMATION

Origin	China	Standard	Ph Eur. / BP
Use	Cosmetic and Food	Submission Code	005439-01178-9380
INCI	CYANOCOBALAMIN	Source	Ensifer adhaerens
Quality	GMP Parmaceutical		
CAS	68-19-9		
Carrier	None		

ITEM	SPECIFICATION	METHOD
Assay	97.0%~102.0%	USP monograph
Characters	Dark red crystals or amorphous or crystalline red powder	Visual method
Identification A	UV: The absorption spectrum exhibits maxima at 278±1nm,361±1nm,and 550±2nm.278±1nm,361±1nm,550±2nm A361 nm/A278nm :1.70~1.90 A361 nm/A550nm :3.15~3.40	USP monograph
Identification B	Cobalt: Meets USP requirements	USP monograph
Identification C	HPLC: The retention time of the major-peak of the sample solution corresponds to that of the standard solution.	USP monograph
Loss on drying	≤10.0%	USP monograph/USP<731><731>
Related substances	Total impurities ≤3.0% 7β ,8β - Lactocyanocobalamin ≤1.0% 34-Methylcyanocobalamin ≤2.0% 8-Epi-cyanocobalamin ≤1.0% Any other unidentified impurity and 50-Carboxycyanocobalamin ≤0.5%	USP monograph
Acetone	≤5000ppm	In house /(GC) SOP-QC-001-04-05

STATEMENTS

Food Quality and Safety	According to Reg. (EC) 178/2002
Contaminants	According to Reg. (EC) 1881/2006 and amendments
Residual Solvents	According to Dir. (EC) 2009/32 and amendments
Pesticides	According to Reg. (EC) 396/2005 and amendments
Microbiology	Bacterial Count: TAMC-Bacteria <1,000 cfu/g, TYMC <100 cfu/g
GMO	Not Detectable, GMO Free According to Reg. (EC) 1829/2003 and 1830/2003 and amendments
ETO	ETO free
Vegan	Vegan
Irradiation	No ionization or other radiation is permitted According to Dir. (EC) 1999/2 and 1999/3 and amendments
BSE/TSE	Risk Free BSE/TSE
Allergen free	according to Reg. (EC) 1169/2011
Nanomaterials	Absent According to Reg. (EC) 1169/2011
Titanium dioxide	Absent According to Reg. (EC) 2022/63
Packaging	According to Reg. (EC) Nr. 10/2011 and 1935/2004
Regulatory (for production)	GMP, ISO 9001, ISO 14001, ISO 45001
HALAL and KOSHER	Conform
CMR Status	according to Cosmetics Regulation (EC) 1223/2009
Mineral oil	Free
Palm (kernel) oil	Free

STORAGE AND HANDLING

Storage	Store in a well-closed container away from moisture and direct sunlight
Shelf Life	5 years if sealed and properly stored

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