

Certificate of analysis

Product Name	Cobamamide		
Formula	C72H100CoN18O17P	Molecular Weight	1579.58
CAS NO.	13870-90-1	Quantity	2kg
Batch No.	20201201	Mfg. Date	2020-12-01
Items	Specification		Results
Appearance	Dark red crystals or noncrystalline powder		Complies
Identification 1 (UV)	The absorption exhibits maxima at 264nm, 285nm, 305nm and 460nm		Complies
Identification 2 (HPLC)	The principal peak obtained with the test solution for assay is consistent with the reference solution in retention time		Complies
Identification 3 (IR)	The infrared absorbtion atlas of this production should be consistent with the standard		Complies
Hydroxocobalamin (UV)	A460/A352≥0.90		0.94
Related substances (HPLC)	≤1.0%		0.8%
Loss on drying	≤12.0%		7.4%
Residual solvent (GC)	Acetone ≤0.5%		0.01%
	Ethanol ≤0.5%		<0.0002%
Total plate count (Plate culture)	≤1000cfu/g		<10cfu/g
Assay (on anhydrous basis) (HPLC %)	98.0%~102%		98.61%
CONCLUSION	The result conform with standard of CP2010		