



Certificate of Analysis

DNP International Co., Inc. 3035 Red Hat Lane Whittier, CA 90601 Tel: 562-205-1430 Fax: 562-205-1440

Product Name: **Cyanocobalamin**

Batch No: 060556

Production Date: 5-2-2006

Analysis Date: 5-10-2006

Origin: China

Batch Size: 5kg

Shelf Life: 5 years

Vegan:

Package:

The following information is a direct translation of the information provided to DNP from the manufacturer of this product. This Certificate of Analysis should be used for informational purposes and is not intended as a substitute for strict quality control analysis by the purchaser of this product.

Name of Raw Material(s): Corn Slurry, Glucose
Standard: USP28/ BP2002/EPV
Storage: Cool, dry, no-light place
CAS#: 68-19-9
Molecular Formula: C63H88CoN14O14P

Item	Specification	Result
Absorbance	A361/A278 1.70~1.90;A361/A550 3.15~3.40	1.83;3.24
Appearance	Dark red crystalline powder	Conforms
Assay (on dry basis)	96.0~100.5%	99.1%
Bulk Density		0.68g/cm ³
Loss on Drying	12.0% max.	2.3%
Mesh Size	0.25mm	Conforms
Related Substances	3.0% max.	2.1%
Solubility		Slightly soluble in water and ethanol
Total Bacteria cfu/g		10 max.

Product Description: Excipients, fillers, carriers, preservatives: none
Pseudo Cyanocobalamin: Meet the requirement; Conforms
Conclusion: This product complies with specification of USP28/ BP2002/EPV.

David Ji, Preside