

## Cyanocobalamin (Vitamin B12) USP

### Product Characteristics

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Appearance	Dark red, crystalline powder
Country of origin	China

Profile	Specification
Identification A	
A361/A278	1.70 – 1.90
A361/A550	3.15 – 3.40
Identification B	Complies to USP
Identification C	Complies to USP
Loss on drying	≤ 12.0%
Assay (on dry basis)	96.0 – 102.0%
Related compounds	
Total impurities	≤ 3.0%
7β,8β-lactocyanocobalamin	≤ 1.0%
50-carboxycyanocobalamin	≤ 0.5%
34-methylcyanocobalamin	≤ 2.0%
32-carboxycyanocobalamin	≤ 1.0%
8-epi-cyanocobalamin	≤ 1.0%
Any other unidentified impurity	≤ 0.5%
Residual solvents	
Acetone	≤ 0.5%
Heavy Metals	≤ 10.0 ppm
Arsenic	≤ 2.0 ppm
Cadmium	≤ 2.0 ppm
Lead	≤ 2.0 ppm
Mercury	< 2.0 ppm
Total aerobic plate count	≤ 1000 CFU/g

### Storage

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Store in tight containers, protected from light, moisture and heat.

Revision: 12/22/17