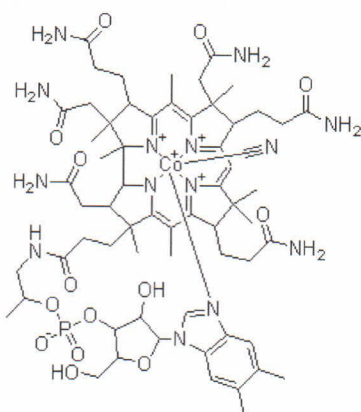


Batch no C240828F
Mf date Aug 16 2024
Exp date Aug 15 2029

Molecular Structure



Molecular Formula $C_{63}H_{88}CoN_{14}O_{14}P$
Molecular Weight 1355.38
CAS Registry Number 68-19-9

Sep 25 2024

Tests	Specifications	Results
Appearance	Dark red crystalline powder or crystals	Conforms
Identification	TLC, HPLC, chemical test	Positive
Absorption spectrum	A361nm/A278nm 1.70 ~ 1.90 A361nm/A550nm 3.15 ~ 3.40	1.87 3.28
Loss on drying	≤ 10.0%	4.8%
Related substances	7β, 8β-Lactocyanocobalamin ≤ 1.0% 34-Methylcyanocobalamin ≤ 1.0% 8-Epi-cyanocobalamin ≤ 1.0% Any other unidentified impurity ≤ 0.5% Total impurities ≤ 3.0%	0.5% 0.1% 0.2% 0.2% 1.3%
Residual solvents	Acetone ≤ 5000 ppm	132 ppm
Microbiology test	Total aerobic microbial count ≤ 1000 cfu/g Total combined yeasts & mould count ≤ 100 cfu/g	60 cfu/g < 10 cfu/g
Assay	97.0 ~ 102.0%	98.5%

Packaging & storage	Store in airtight container and at 15-30°C, protected from light
Conclusion	Material complies with USP-NF2024