

# *Chem-Impex International, Inc.*

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825 Dillon Drive

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## *Certificate of Analysis*

<b>Catalogue Number</b>	01412
<b>Lot Number</b>	003519-230601
<b>Product</b>	<b>Vitamin B<sub>12</sub></b> Cyanocobalamin
<b>CAS Number</b>	68-19-9
<b>Molecular Formula</b>	C <sub>63</sub> H <sub>88</sub> N <sub>14</sub> O <sub>14</sub> PCo
<b>Molecular Weight</b>	1355.37

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<b>Appearance</b>	Dark red crystal, amorphous or crystalline red powder
<b>Yeast and Mold</b>	< 10 cfu/g
<b>UV Ratios</b>	Wavelength range: 200-700 nm The absorption spectrum exhibits maxima at 278 ± 1, 361 ± 1, and 550 ± 2 nm. A <sub>361</sub> /A <sub>550</sub> nm = 3.26 A <sub>361</sub> /A <sub>278</sub> nm = 1.83
<b>Loss on Drying</b>	3.8%
<b>Residual Solvents</b>	Acetone : 14 ppm
<b>Microbial Count</b>	80 cfu/g (TAMC)
<b>Related Substances</b>	7β, 8β-Lactocyanocobalamin : 0.6% 50-carboxycyanocobalamin : 0.2% 34-Methylcyanocobalamin : 0.2% 32-Carboxycyanocobalamin : 0.2% 8-Epi-cyanocobalamin : 0.2% Any other unidentified impurity : 0.2% Total impurities : 1.6%
<b>Assay</b>	99.1% (On dried basis)
<b>Grade</b>	Meets USP specification
<b>Storage</b>	Store at 0 - 8 °C
<b>Additional Information</b>	Identification : Test for B : Passes test Test for C : Passes test

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**