

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC031001-01)

Release Date: 08/05/2024

Re-test Date: 07/05/2027

## Cyanocobalamin Impurity

### Identification

**Chemical Name :**

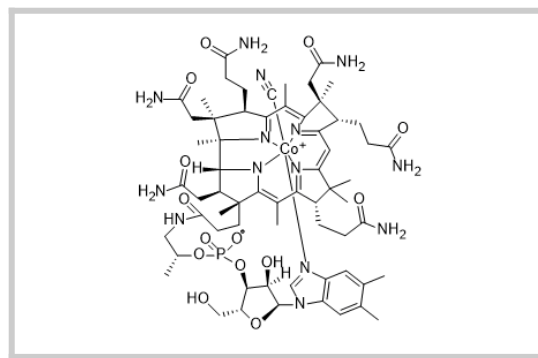
Alpha-(5,6-Dimethylbenzimidazolyl)cobamidcyanide

**CAT No.** : KMC031001

**CAS No.** : 68-19-9

**Molecular Formula** : C<sub>63</sub>H<sub>88</sub>CoN<sub>14</sub>O<sub>14</sub>P

**Molecular Weight** : 1355.37



### Analytical Information

**Batch No.** : CYA-PRS-073-196

**Description** : Red Solid

**HPLC Purity** : 99.80 %

**Weight Loss By TGA** : 3.50 %

**% Potency** : 96.31 %

**Solubility** : Water

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be shipped at room temperature

**% Potency** = [100 - 3.50(Weight Loss By TGA)] x [99.80(HPLC Purity)]/100 = 96.31 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		10/05/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		10/05/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, IR and TGA