

CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

Catalogue Number: C953620 CAS Number: 38218-77-8

Synonym: 3'-Ester with 5,6-dimethyl-1-a-D-

ribofuranosylbenzimidazole Cobinic acidacdeg-pentamide Cyanide Phosphate Inner Salt; 3'-Ester with 5,6-dimethyl-1-a-Dribofuranosyl-1H-benzimidazole Cobinic Acid-

acdeg-pentamide Cyanide, Dihydrogen Phosphate (Ester) Inner Salt; CBC 195; 32-

Carboxycyanocobalamin;

Structure:

Product:

HO NC Me Me NH₂ NH₂

Cyanocobalamin-b-carboxylic Acid

Molecular Formula:

C63H87C0N13O15P

Molecular weight:

1356.35

Source of Product:

Synthetic **Solubility:**

Methanol (Slightly), Water

(Slightly)

Lot 22-MNZ-53-1

..

Purity: 98%

Shipping This Product Is Stable To Be **Condition:** Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Appearance Red to Very Dark Red Solid Dark Red to Very Dark Red Solid

NMR Conforms to Structure Conforms
P NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 51.55, %H: 6.80, %N: 13.18

MS Conforms to Structure Conforms

HPLC Purity Report Result 98.05% (210 nm)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By
swathi reddy

Reviewed By
Toni Rantanen

C of A Approved
By
Chanell Chu
10/31/2023
10/29/2027

Chanell Chu

Chanell Chu
10/31/2023