

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 C953623 CAS 38218-55-2 Number:

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

ribofuranosylbenzimidazole Cobinic Acidabceg-pentamide Cyanide Phosphate Inner Salt; 3'-Ester with 5,6-Dimethyl-1-a-Dribofuranosyl-1H-benzimidazole Cobinic Acidabceg-pentamide Cyanide Dihydrogen

Phosphate (Ester) Inner Salt; 3'-Ester with (5,6-Dimethyl-1-a-D-ribofuranosyl-1Hbenzimidazole-ĸN3) Cobinic Acid-abcegpentamide Co-(cyano-κC)-Dihydrogen Phosphate (Ester) Inner Salt; CBC 226;

Cobalamin-d-monoacid Cyanide

Structure:

ĊH³ĆH³ NH_2 CH_3

Product: Cyanocobalamin-d-carboxylic Acid

Molecular Formula:

C63H87C0N13O15P

Molecular weight:

1356.35

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water

(Slightly)

Lot 12-AQL-22-5 Number:

This Product Is Stable To Be Shipping Condition: Shipped At Room Temperature **Purity:** 98%

Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Red to Dark Red Solid Red to Dark Red Solid **Appearance**

NMR Conforms to Structure Conforms P NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 52.59, %H: 6.79, %N: 12.92

HPLC Purity 99.13% (205 nm) Report Result

MS Conforms to Structure Conforms FT-IR Conforms to Structure Conforms

Water Content Report Result ~6.2% based on Elemental Analysis

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	Reviewed By	C of A Approved By	Test Date	Retest Date
Evan Burns	Toni Rantanen	Chanell Chu	11/26/2021	11/24/2025
Evan Burns	KA	Garnell Fru		