

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 T117630

Number:

5-(tert-Butoxy)-5-oxo-4-(4,7,10-tris(2-(tert-

Product: butoxy)-2-oxoethyl)-1,4,7,10-

tetraazacyclododecan-1-yl)pentanoic Acid

(>85%)

Structure:

 $CO_2 tBu$ N O O $tBuO_2 C$ N $CO_2 tBu$ $tBuO_2 C$

Lot Number: 2023-ZEA-075

Shipping This Product Is Stable To Be Shipped At

Condition: Room Temperature

CAS Number: 306776-79-4

Synonym: 1,4,7,10-Tetraazacyclododecane-

1,4,7,10-tetraacetic acid-a-(2-

carboxyethyl)-1,4,7,10-tetrakis(1,1-

dimethylethyl) ester

Molecular Formula:

C35H64N4O10

Molecular weight:

700.9

Source of Product:

N/A

Solubility:

Chloroform (Slightly), DMSO (Slightly), Methanol (Slightly)

Purity: >85%

Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Appearance Pale Yellow to Dark Yellow Solid Pale Yellow to Light Yellow Solid

NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 54.36, %H: 9.04, %N: 7.10

HPLC Purity Report Result 93.40% (ELSD)

MS Conforms to Structure Conforms

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 Test Date Retest Date

Henry Tieu Toni Rantanen Chanell Chu 3/14/2023 3/12/2027

The Charles