



CERTIFICATE OF ANALYSIS

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1. Identification

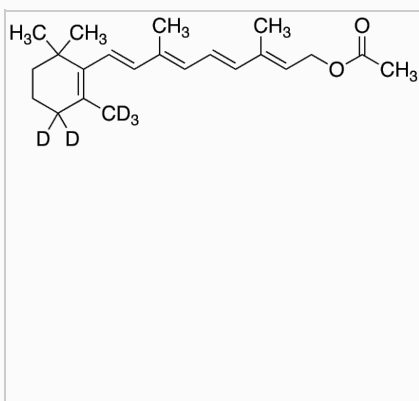
Catalogue Number: V676002

CAS Number: 1217219-62-9

Product: Vitamin A-d5 Acetate

Synonym: (all-E)-3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl-d5)-2-4,6,8-nonatetraen-1-ol Acetate; Retinyl-d5 Acetate; Vitamin A1-d5 Acetate; all-trans-Retinol-d5 Acetate;

Structure:



Molecular Formula:

C₂₂H₂₇D₅O₂

Molecular weight:

333.52

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly), Methanol (Slightly)

Lot Number: 17-VHP-62-1

Purity: 95%

Shipping Condition: This Product Is Stable To Be Shipped With Dry Ice

Storage Condition: -86°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Pale Yellow to Green Oil to Solid	Pale Yellow Low-Melting Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 79.61, %H: 9.87
MS	Conforms to Structure	Conforms
Isotopic Purity	Report Result	95.5%

Additional Information:

Normalized Intensity: d0 = 0.00%, d1 = 0.07%, d2 = 0.06%, d3 = 2.01%, d4 = 18.15%, d5 = 79.71%

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
Nicole Yip	Toni Rantanen	Chanell Chu	7/10/2023	7/8/2027