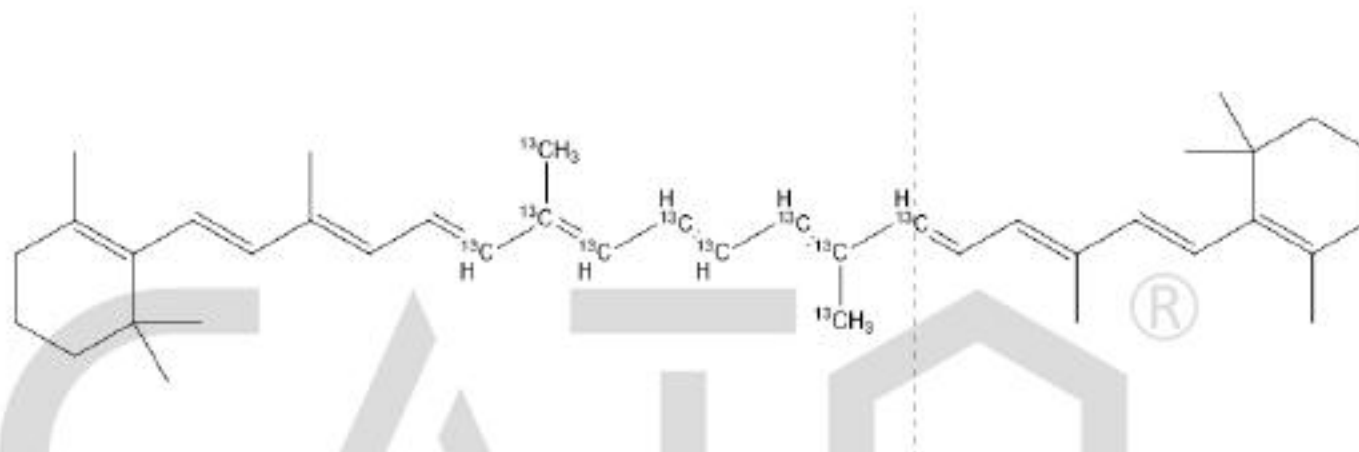


Certificate of Analysis

Reference Material & Standard

Product Name:	[13C10]-Beta-Carotene	Catalogue Number:	CCFD202497
Synonyms:	N/A	Lot Number:	1016-SA-7349
CAS Number:	301150-50-5	Expiry Date:	Oct 15, 29
Molecular Formula:	C ₃₀ [13C] ₁₀ H ₅₆	Storage:	-80°C ± 5°C Protected from light and Sealed
Molecular Weight:	546.47		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	98.132%
Uncertainty		±2.0%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Oct 16, 25

Date: Oct 16, 25

Date: Oct 16, 25



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Directions:

1. *Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
2. *Minimum sample size: 1mg is recommended as the minimum sample size.*
3. *Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
4. *Instructions for handling and correct use: Handling in a well-ventilated place.*

Document Version:

Revision No.	Date	Reason for Revision
01	Oct 16, 25	First release.

