

Certificate of Analysis

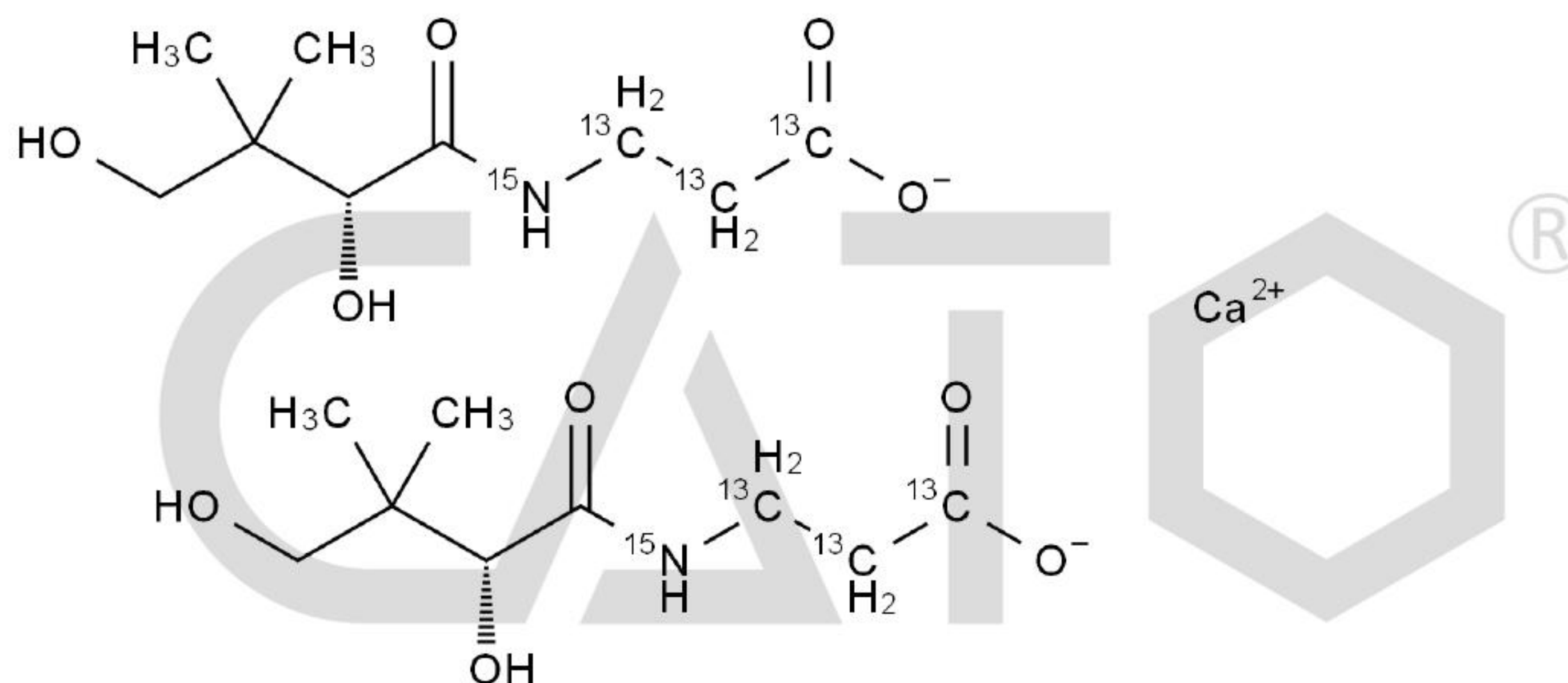
Reference Material & Standard

Product Name:	Pantothenic Acid-13C3,15N Hemicalcium Salt	Catalogue Number:	CCFD200638
Synonyms:	N/A	Lot Number:	1219-RG-0001
CAS Number:	356786-94-2	Expiry Date:	May 23, 2034
Molecular Formula:	2*C ₆ [13C] ₃ H ₁₆ [15N]O ₅ Ca	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	2*222.20 40.08	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Chemical Purity	HPLC	99.3%
Isotopic Purity		99.5%
Uncertainty		±0.1%

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:

Hinlam

Approved by General Manager:

David

Date: Dec 19, 2025

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