

Certificate of Analysis

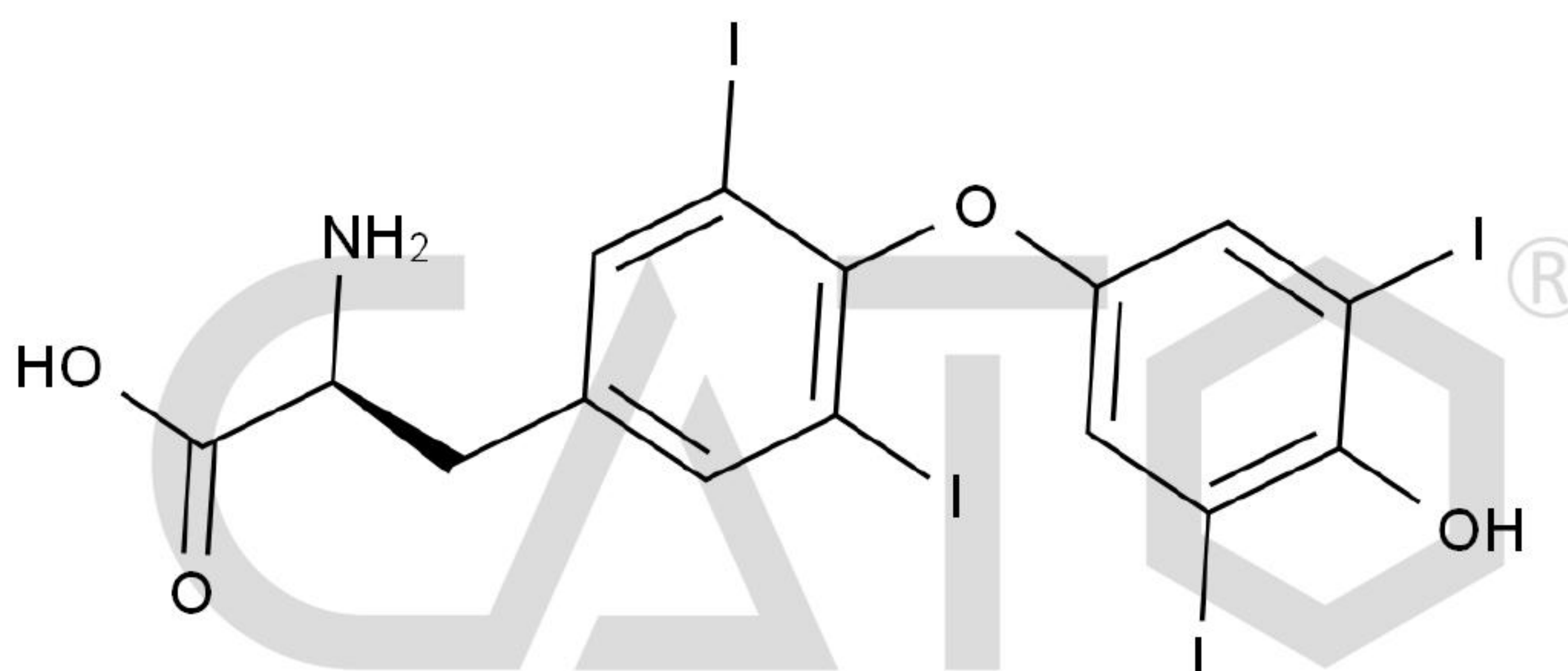
Reference Material & Standard

Product Name:	L-Thyroxine	Catalogue Number:	CCAD300287
Synonyms:	N/A	Lot Number:	1026-RD-0046
CAS Number:	51-48-9	Expiry Date:	Nov 01, 2026
Molecular Formula:	C ₁₅ H ₁₁ I ₄ NO ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	776.87		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	95.961%
Residual Solvents	NMR	1.67% acetic acid
Loss on Drying	TGA	0.4372%
Assay		93.9%
Uncertainty		±2.0%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100%-Residual Solvents-Loss on Drying) * Purity HPLC (%) / 100%

Residual Solvents and Loss on Drying are considered as absolute effect, HPLC purity is considered as relative effect.

2. 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:

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