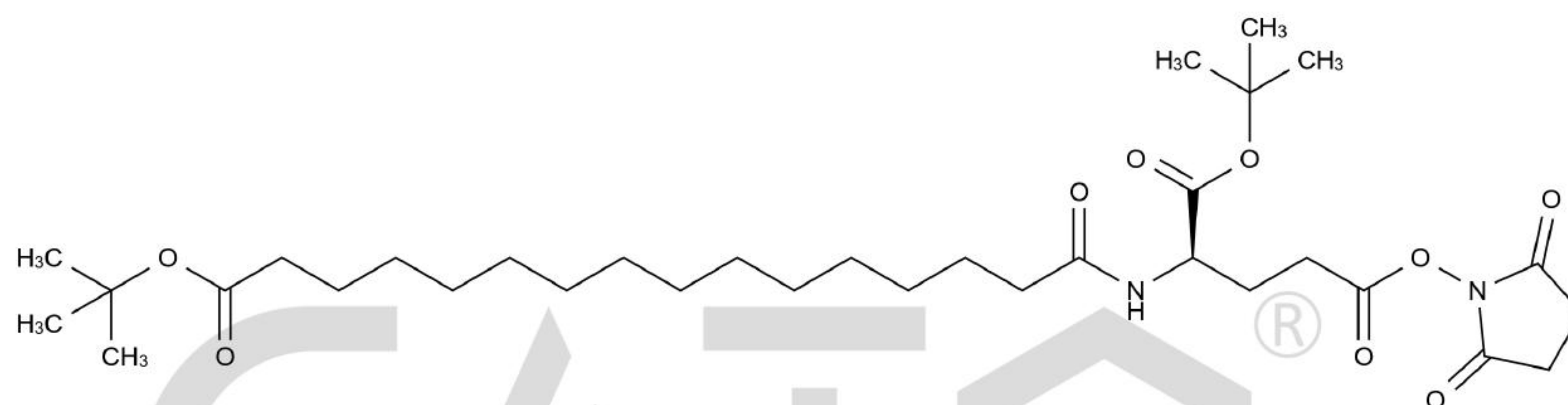


Certificate of Analysis

Reference Material & Standard

Product Name:	Insulin Degludec Impurity 3	Catalogue Number:	C4X-21573
Synonyms:	N/A	Lot Number:	1023-RE-0072
CAS Number:	N/A	Expiry Date:	Aug 10, 2030
Molecular Formula:	C ₃₃ H ₅₆ N ₂ O ₉	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	624.81	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	98.652%
Loss on Drying	TGA	1.2171%
Assay		97.5%

Comment:

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

Assay (%) = (100% - Loss on Drying) * Purity ELSD (%) / 100%

Loss on Drying is considered as absolute effect, ELSD purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Aug 11, 2026

Date: Aug 11, 2026

Date: Aug 11, 2026



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