

Certificate of Analysis

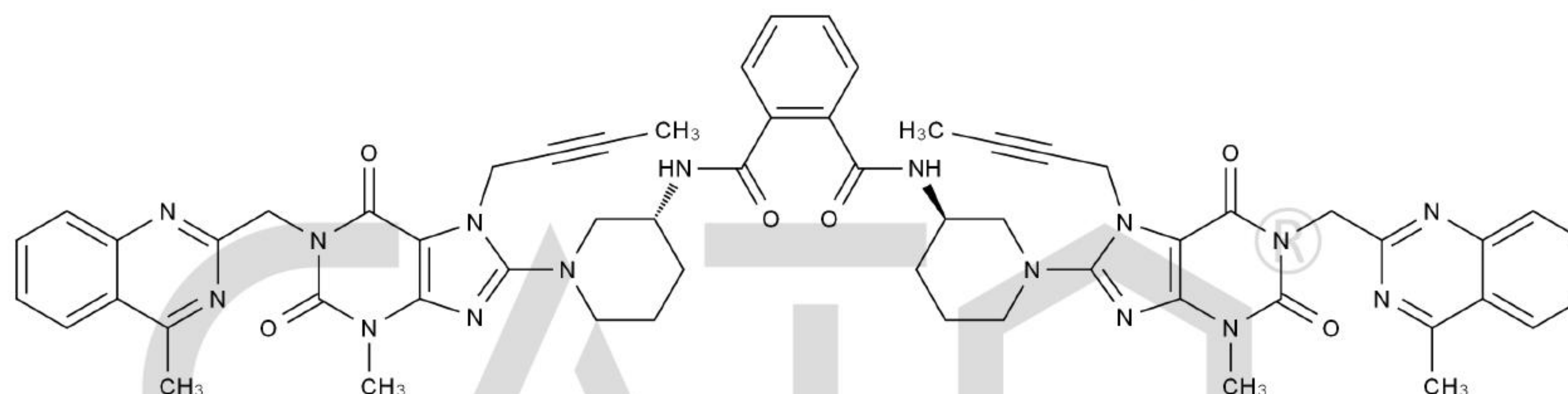
Reference Material & Standard

Product Name:	Linagliptin Impurity 44	Catalogue Number:	C4X-110144
Synonyms:	N/A	Lot Number:	0413-RH-0177
CAS Number:	2074688-82-5	Expiry Date:	Apr 15, 2030
Molecular Formula:	C ₅₈ H ₅₈ N ₁₆ O ₆	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	1075.18	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	98.630%
Loss on Drying	TGA	2.6570%
Assay		96.0%

Comment:

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

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

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

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Apr 16, 2026

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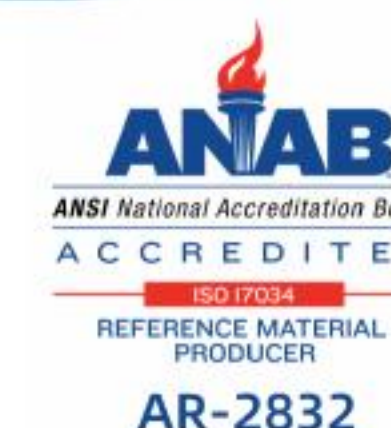
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