

Certificate of Analysis

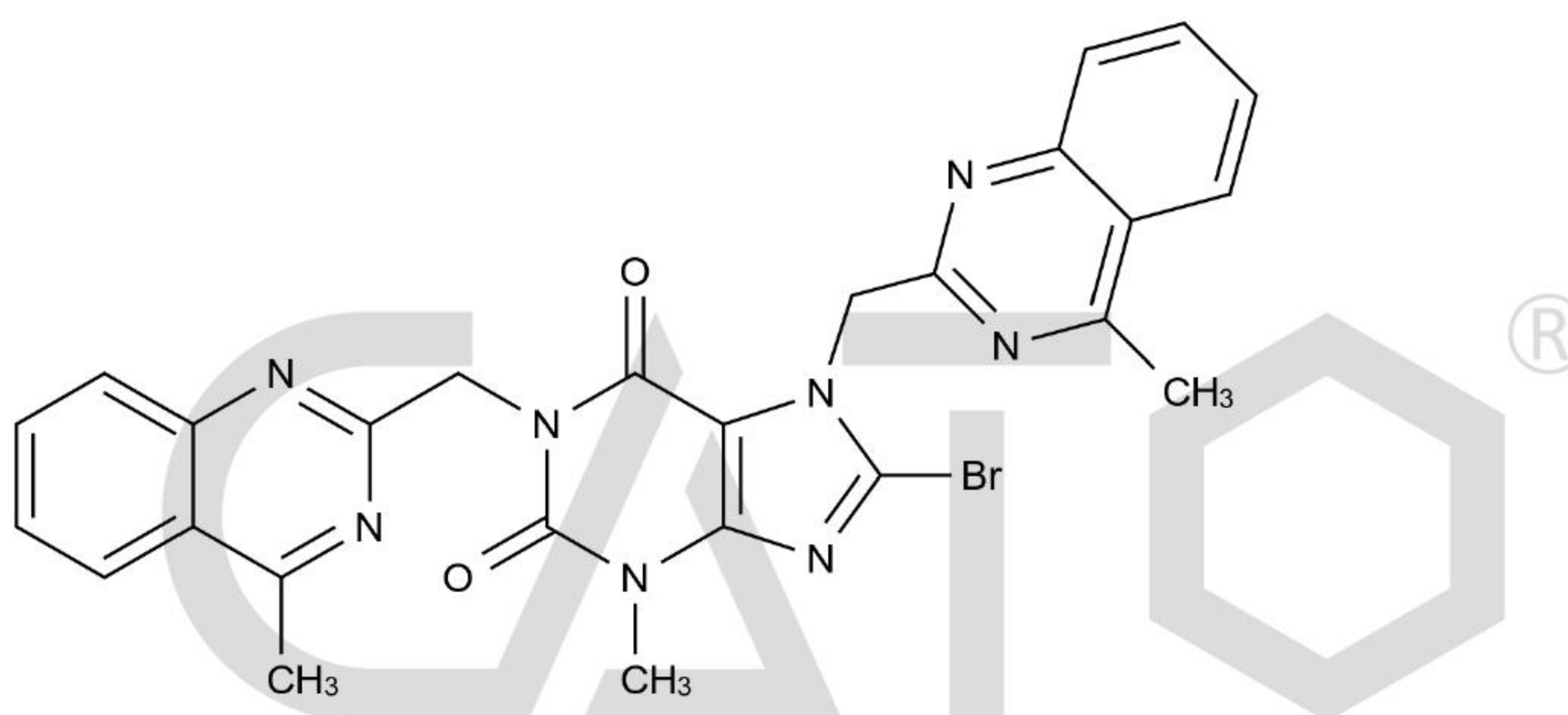
Reference Material & Standard

Product Name:	Linagliptin Impurity N13	Catalogue Number:	CP127161
Synonyms:	N/A	Lot Number:	0417-RE-0105
CAS Number:	2138392-83-1	Expiry Date:	Sep 19, 2028
Molecular Formula:	C ₂₆ H ₂₁ BrN ₈ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	557.41	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.628%
Water Content	Karl Fischer	0.35%
Assay		99.3%

Comment:

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

Assay (%) = (100% - Water Content) * Purity HPLC (%) / 100%

Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

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Approved by General Manager:

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Date: Oct 27, 2025

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