

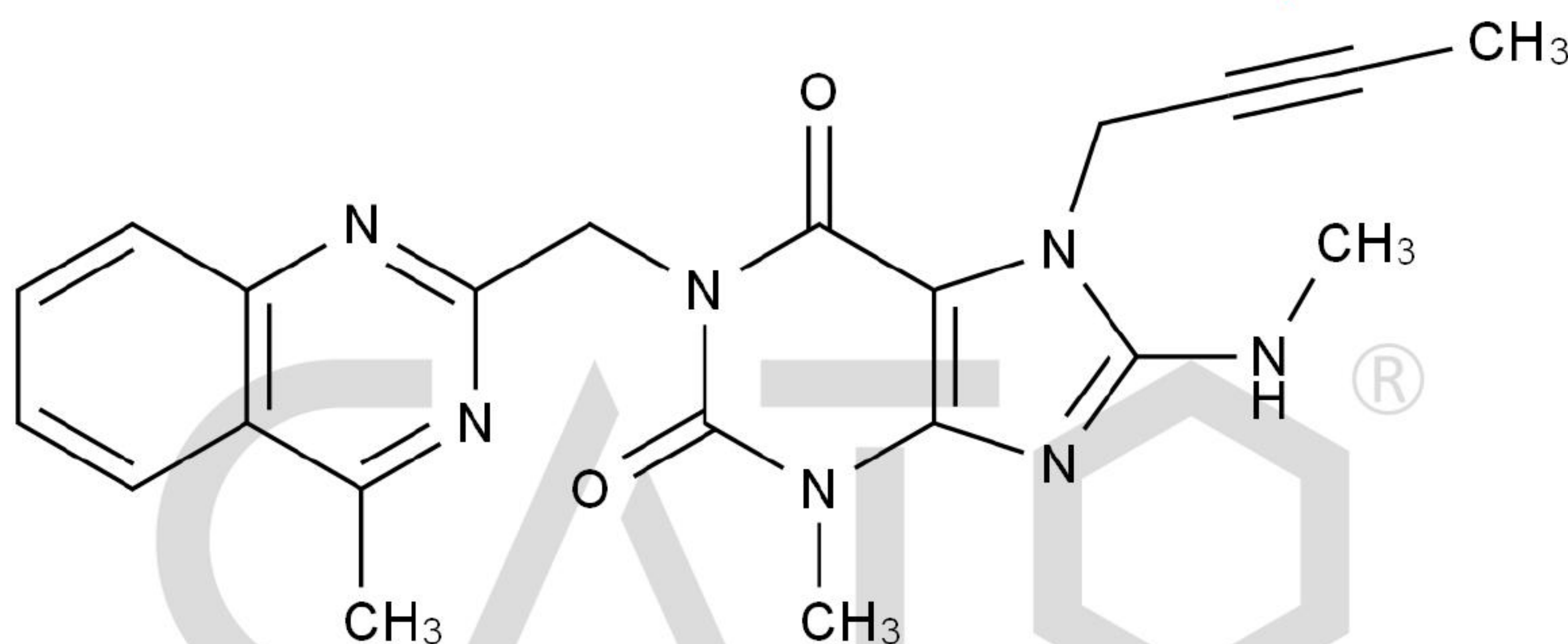
Certificate of Analysis

Reference Material & Standard

Product Name:	Linagliptin Impurity 47	Catalogue Number:	C4X-110147
Synonyms:	N/A	Lot Number:	0909-RF-0007
CAS Number:	2468656-63-3	Expiry Date:	Sep 13, 2027
Molecular Formula:	C ₂₁ H ₂₁ N ₇ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	403.44	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	HPLC	99.291%
Loss On Drying	TGA	0.0778%
Assay		99.2%

Comment:

The calculation of the 100% 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:

Nice

Reviewed by:

Lily

Approved by General Manager:

David

Date: Sep 14, 2024

Date: Sep 14, 2024

Date: Sep 14, 2024

