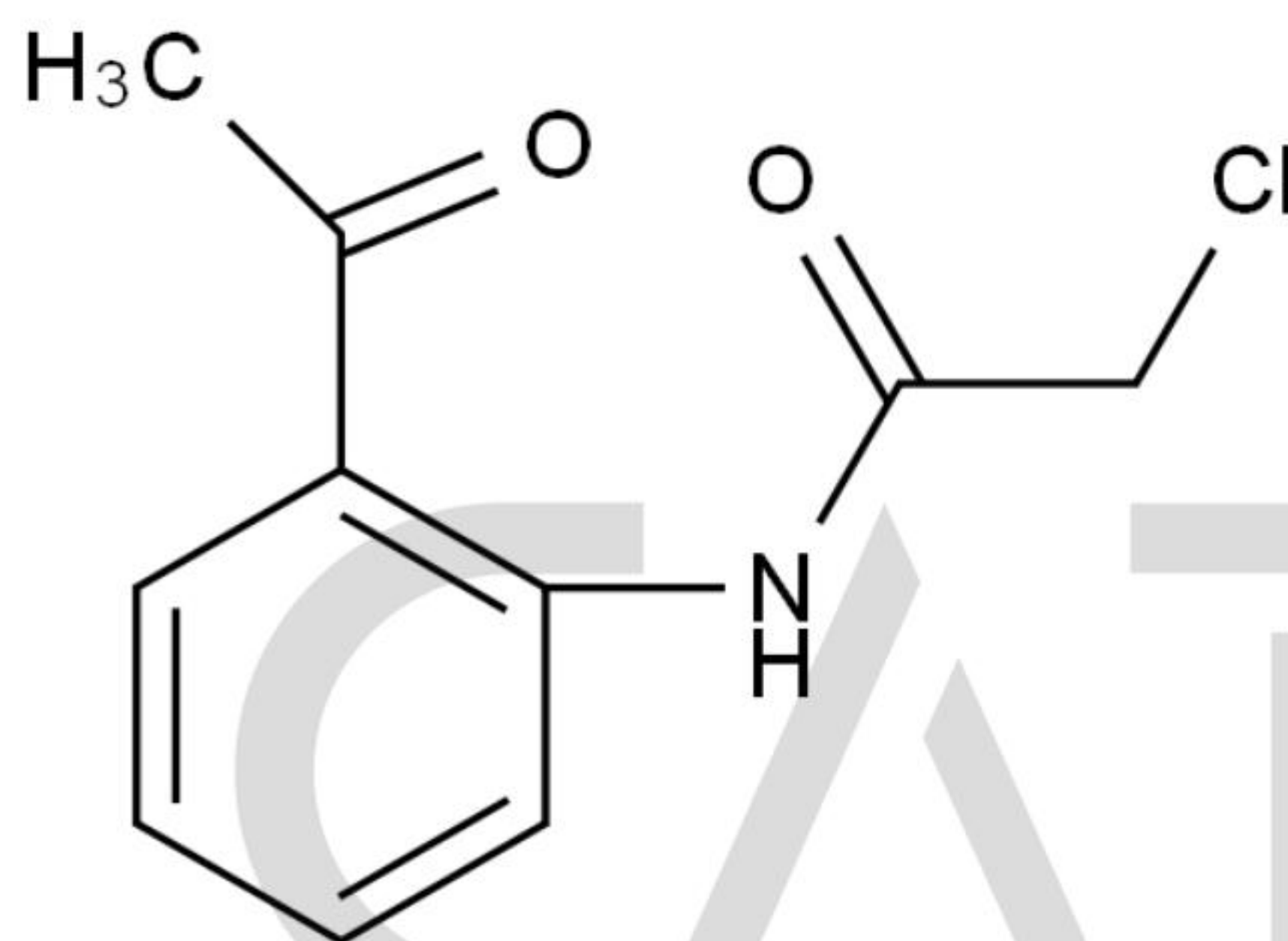


Certificate of Analysis

Reference Material & Standard

Product Name:	Linagliptin Impurity 17	Catalogue Number:	C4X-110117
Synonyms:	N/A	Lot Number:	0526-RH-0100
CAS Number:	6140-11-0	Expiry Date:	Jun 01, 2030
Molecular Formula:	C ₁₀ H ₁₀ ClNO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	211.64	Shipping Condition:	Shipping at Room Temperature
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.000%
Loss on Drying	TGA	0.3366%
Assay		98.7%

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:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Jun 02, 2026

Date: Jun 02, 2026

Date: Jun 02, 2026



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