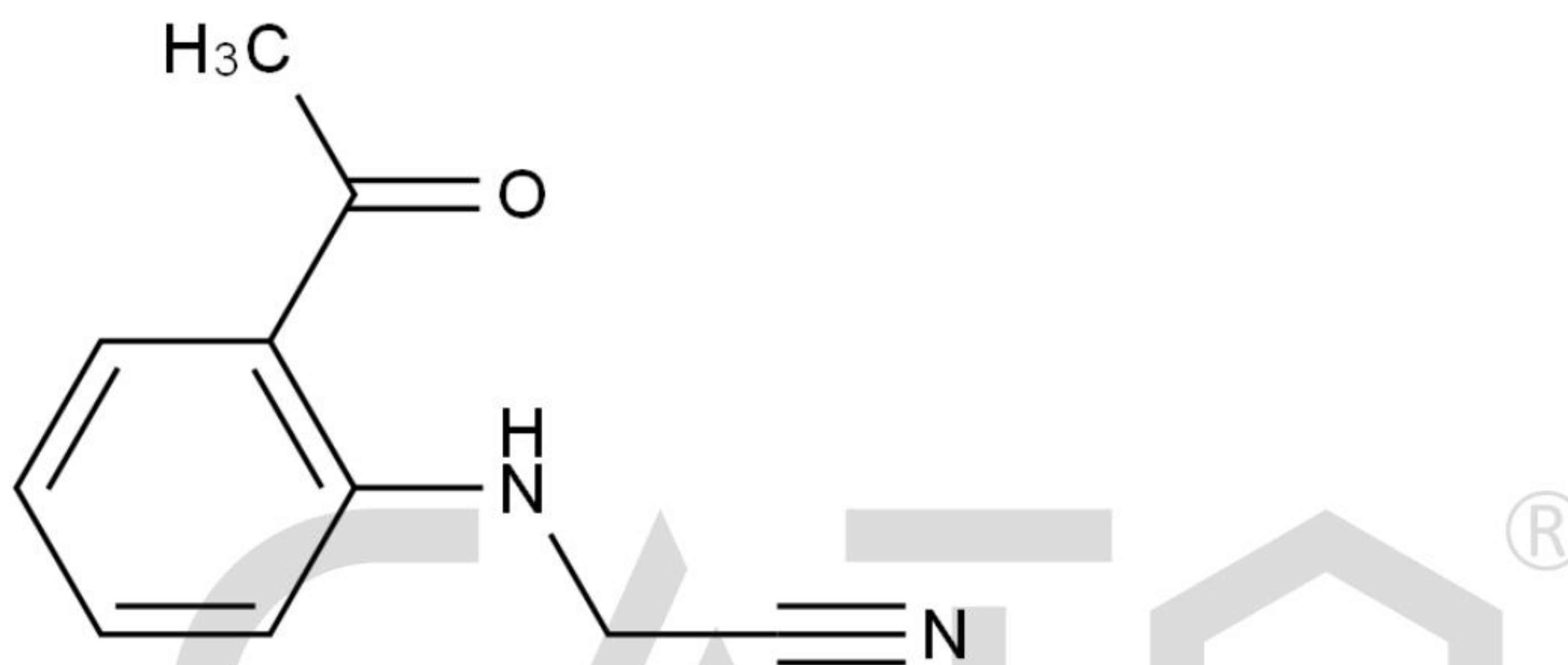


Certificate of Analysis

Reference Material

Product Name:	Linagliptin Impurity N16	Catalogue Number:	CP151057
Chemical Name:	N/A	Lot Number:	1009-RD-0058
CAS Number:	88203-04-7	Expiry Date:	Oct 12, 2025
Molecular Formula:	C ₁₀ H ₁₀ N ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	174.20		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Loss On Drying	TGA	0.1923%
Assay		99.8%

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:

Debia

Reviewed by:

Hinlam

Aporoved by General manager:

David

Date: Oct 13, 2022

Date: Oct 14, 2022

Date: Oct 14, 2022

