

## Certificate of Analysis

**Structure** 

<u>Catalogue Number</u> KL-06-00334 <u>Lot Number</u> KLP0112AK01

**Product Name** 

N-Nitroso Linagliptin Impurity 48

**Synonyms** 

tert-butyl (R)-(1-nitrosopiperidin-3-yl)carbamate

<u>CAS Number</u> <u>Molecular Formula</u>

3031851-92-7 C<sub>10</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>

Molecular Weight Mfg. Date Re-Test Date

229.28 g/mol 20-11-2025 19-11-2028

**Shipping Condition** 

All Product are stable to be shipped at room temperature, unless otherwise specified.

**Long Term Storage Conditions** 

 $2^{\circ}C \sim 8^{\circ}C$  Protected from light and Sealed

## **Analytical Information**

Test	<b>Specifications</b>	Results
Appearance	Pale Yellow Solid	Pale Yellow to Pale Brown Solid
Solubility	Soluble in DMSO, Methanol	Conforms
Purity by HPLC	Not less than 90.00%	99.70%
Identification by <sup>1</sup> HNMR	Conforms to structure	Complies
Identification by Mass	Conforms Molecular Weight	Complies
Identification by IR	Conform functional groups	Complies
Weight Content By TGA	Not specified	0.054%
Residue of Ignition By TGA	Not specified	0.083%
Potency	Not specified	99.56%

Prepared by

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