## **CERTIFICATE OF ANALYSIS**

(Certificate No. KMS010001-03)

**Release Date:** 20/11/2025 **Re-test Date:** 19/11/2028

# **Sitagliptin Nitroso Impurity-1**

#### **Identification**

**Chemical Name:** 

7-nitroso-3-(trifluoromethyl)-5,6,7,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrazine

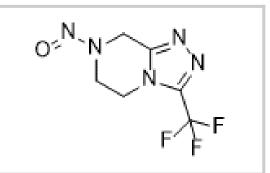
**Alt. Name** : Sitagliptin KSM Nitroso

**CAT No.** : KMS010001

**CAS No.** : 2892260-32-9

**Molecular Formula**: C6H6F3N5O

**Molecular Weight** : 221.14



: Confirm

1H NMR

### **Analytical Information**

**Batch No.** : S010001-114-011 **Solubility** : Acetonitrile

Description: Light Yellow SolidMass: ConfirmHPLC Purity: 99.94 %IR: Confirm

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**% Potency** : 99.65 %

#### **Additional Information**

Weight Loss By TGA

**Long Term Storage** : Store at 2-8 deg. C for long term storage

: 0.29 %

**Shipping Condition** : Product is stable to be shipped at room temperature

**% Potency** = [100 - 0.29(Weight Loss By TGA)] x [99.94(HPLC Purity)]/100 = 99.65 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		21/11/2025
Reviewed & Approved By	Quality Control	Jatin Patel		21/11/2025

Attachments : COA, HPLC, MASS, 1HNMR, IR and TGA