

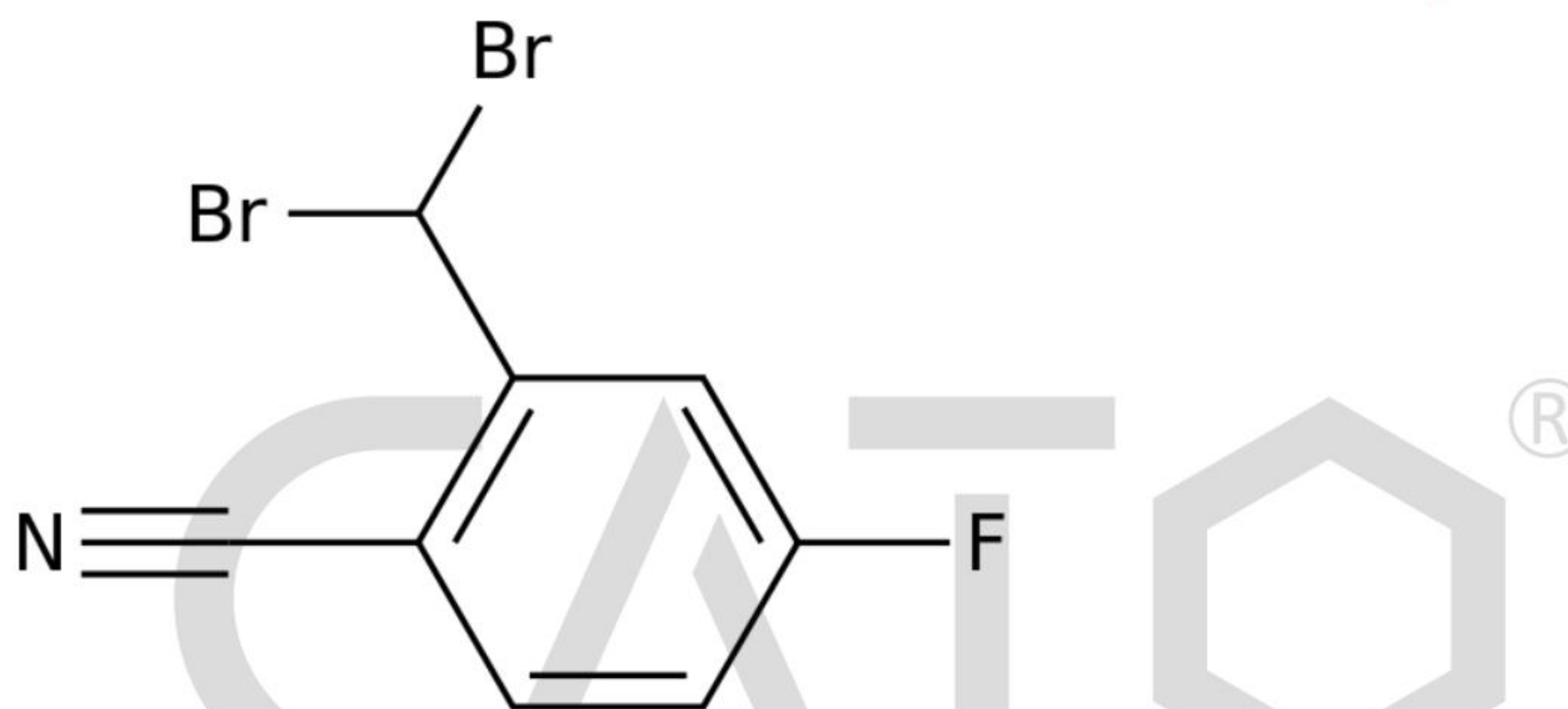
# Certificate of Analysis

## Reference Material & Standard

|                    |                                                  |                   |                                           |
|--------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Alogliptin Impurity 64                           | Catalogue Number: | C4X-109964                                |
| Synonyms:          | 2-(DibroMoMethyl)-4-fluorobenzonitrile           | Lot Number:       | 1213-RF-0082                              |
| CAS Number:        | 1485536-93-3                                     | Expiry Date:      | Dec 16, 2027                              |
| Molecular Formula: | C <sub>8</sub> H <sub>4</sub> Br <sub>2</sub> FN | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 292.93                                           | Warning:          |                                           |



Chemical Structure:



| Test Items     | Method            | Results           |
|----------------|-------------------|-------------------|
| Appearance     | Visual inspection | Light Brown Solid |
| Identification | GCMS&HNMR         | Confirmed         |
| Purity         | HPLC              | 98.525%           |
| Loss On Drying | TGA               | 1.2590%           |
| Assay          |                   | 97.3%             |

## 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:

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Date: Dec 17, 2024

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Date: Dec 17, 2024

