

# CERTIFICATE OF ANALYSIS

(Certificate No. KML008019-01)

Release Date: 31/08/2024

Re-test Date: 30/08/2027

## Lacosamide Impurity G

### Identification

**Chemical Name :**

N-benzyl acetamide; N-(Phenylmethyl)acetamide

**Alt. Name**

: N-Acetyl benzylamine or N-benzyl acetamide

**CAT No.**

: KML008019

**CAS No.**

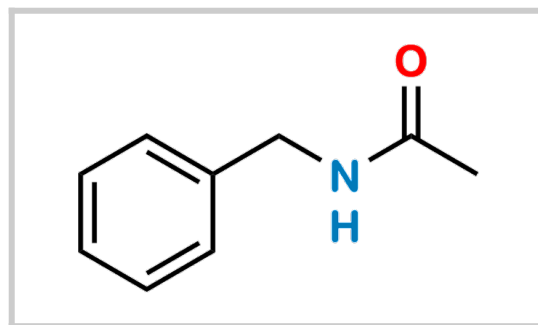
: 588-46-5

**Molecular Formula**

: C<sub>9</sub>H<sub>11</sub>NO

**Molecular Weight**

: 149.2



### Analytical Information

**Batch No.**

: LAC-EP-IMP-G-019-180

**Solubility**

: Acetonitrile

**Description**

: Off White Low Melting solid

**Mass**

: Confirm

**HPLC Purity**

: 99.76 %

**IR**

: Confirm

**Weight Loss By TGA**

: 0.58 %

**<sup>1</sup>H NMR**

: Confirm

**% Potency**

: 99.18 %

### Additional Information

**Long Term Storage**

: Store at 2-8 deg. C for long term storage

**Shipping Condition**

: Product is stable to be Shipped at Room Temperature

**% Potency** = [100 - 0.58(Weight Loss By TGA)] x [99.76(HPLC Purity)]/100 = 99.18 %

-Re-tested on 31.08.2024

**Recommendation**

: Released

|                        | Department      | Name          | Signature | Date       |
|------------------------|-----------------|---------------|-----------|------------|
| Prepared By            | Analytical      | Jignesh Patel |           | 05/09/2024 |
| Reviewed & Approved By | Quality Control | Jatin Patel   |           | 05/09/2024 |

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA