

# CERTIFICATE OF ANALYSIS

(Certificate No. KML008010-01)

Release Date: 18/04/2025

Re-test Date: 17/04/2028

## LACOSAMIDE IMPURITY B

### Identification

**Chemical Name :**

(2R)-2-(Acetylamino)-3-(acetyloxy)-N-(phenylmethyl)-propanamide

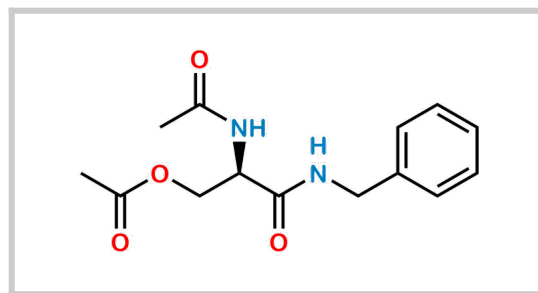
**Alt. Name** : Lacosamide O-Acetyl Impurity

**CAT No.** : KML008010

**CAS No.** : 1318777-54-6

**Molecular Formula** : C<sub>14</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight** : 278.3



### Analytical Information

**Batch No.** : LAC-EP-IMP-B-019-088

**Solubility** : Methanol

**Description** : Off white solid

**Mass** : Confirm

**HPLC Purity** : 97.91 %

**IR** : Confirm

**Weight Loss By TGA** : 0.45 %

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

**% Potency** : 97.47 %

### 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 - 0.45(Weight Loss By TGA)] x [97.91(HPLC Purity)]/100 = 97.47 %

-Re-tested on 18.04.2025

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		03/07/2025
Reviewed & Approved By	Quality Control	Jatin Patel		22/04/2025

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