# **CERTIFICATE OF ANALYSIS**

(Certificate No. SZ-C041020-1346)

Analysis Date: 08/03/2022 Re-test Date: 07/03/2024

#### Lithium Clavulanate In-House Reference Standard

## Identification

Chemical Name : (2R,5R,Z)-3-(2-Hydroxyethylidene)-7-oxo-4-oxa-1-azabicyclo[3.2.0]heptane-2-

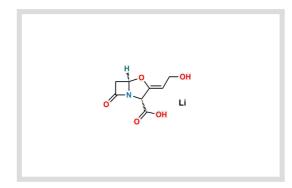
carboxylic acid, lithium salt

**CAT No.** : SZ-C041020

**CAS No.** : 61177-44-4

Molecular Formula : C8H9NO5 : Li

Molecular Weight : 199.2 : 6.9



### Analytical Information

**Batch Code** : SRL-1134-068 **HPLC Purity** : 98.75 %

Solubility : Mobile Phase A Mass : Confirm

Appearance of product: White Solid IR Analysis: Confirm

**Long Term Storage** : 2-8 °C for long term storage 1H NMR : Confirm

Weight Loss By TGA : 0.00 % 13C NMR : Confirm

**DEPT Analysis** : Confirm

#### Additional Information

% Potency =  $[100 - 0.00 \text{ (Wt loss by TGA)}] \times [98.75 \text{ (HPLC Purity)}] / 100 = 98.75 \%$ 

Mobile Phase A: Buffer, Buffer: 0.05 M NaH2PO4 in water pH-4.0 adjust with H3PO4

Elemental Analysis (Theoretical) : %C: 46.62 %H: 4.40 %N: 6.80 %S: 0.00 Elemental Analysis (Practical) : %C: 46.83 %H: 3.72 %N: 6.79 %S: 0.00

**Recommendation** : Released

	Department	Signature	Date
Prepared and Reviewed by	Analytical		
Approved By	Quality Control		

Attachments : HPLC, Mass, 1H NMR, IR, TGA, 13C NMR, DEPT, CHNS

**Shipping Condition** : All Products are stable to be shipped at room temperature, unless otherwise specified.