

# 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

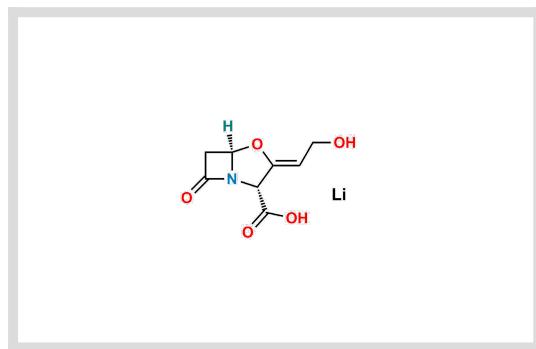
Chemical Name : (2R,5R,Z)-3-(2-Hydroxyethylidene)-7-oxo-4-oxa-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, lithium salt

CAT No. : SZ-C041020

CAS No. : 61177-44-4

Molecular Formula : C<sub>8</sub>H<sub>9</sub>NO<sub>5</sub> : Li

Molecular Weight : 199.2 : 6.9



### Analytical Information

Batch Code : SRL-1134-068

Solubility : Mobile Phase A

Appearance of product : White Solid

Long Term Storage : 2-8 °C for long term storage

Weight Loss By TGA : 0.00 %

HPLC Purity : 98.75 %

Mass : Confirm

IR Analysis : Confirm

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

<sup>13</sup>C NMR : Confirm

DEPT Analysis : Confirm

### Additional Information

% Potency = [100 - 0.00 ( Wt loss by TGA )] X [ 98.75 (HPLC Purity)] / 100 = 98.75 %

Mobile Phase A : Buffer, Buffer: 0.05 M NaH<sub>2</sub>PO<sub>4</sub> in water pH-4.0 adjust with H<sub>3</sub>PO<sub>4</sub>

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, <sup>1</sup>H NMR, IR, TGA, <sup>13</sup>C NMR, DEPT, CHNS

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