

Analysis Date: 28-03-2025

Re-test Date: 28-03-2028

## CEFALEXIN IMPURITY 4

### Identification

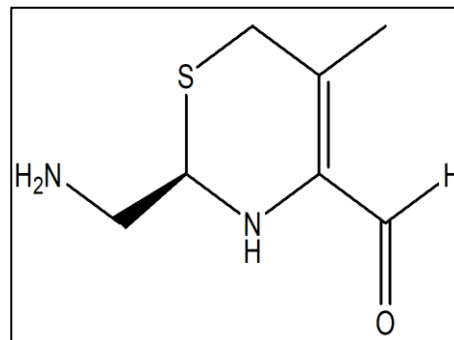
**Chemical Name** : (R)-2-(Aminomethyl)-5-methyl-3,6-dihydro-2H-1,3-thiazine-4-carbaldehyde

**CAT No** : ALL-CEF-2765

**CAS No** : N.A.

**Molecular Formula** : C<sub>7</sub>H<sub>12</sub>N<sub>2</sub>OS

**Molecular Weight** : 172.2



### Analytical Information

<b>Batch Code</b>	: ALL-CEF-2765	<b>HPLC Purity</b>	: 98.01%
<b>Solubility</b>	: METHANOL	<b>Potency</b>	: 96.90%
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: 2-8 <sup>0</sup> C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 0.484%	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.648%		

### Additional Information

**%Potency** = [100 -( Inorganic Impurities % + Water %) × Chromatographic Purity% ]/100 =

[100 – (0.484+ 0.648× 98.01)]/100= 96.90%

**Recommendation** : Released

	Department	Name	Signature
Prepared and Reviewed by	Analytical	Mr. Swapnil Kausatkar Jr. Executive	
Approved By	QA&QC	Dr. Ashish Keche Director QA&QC	

**Attachment** : HPLC, Mass, 1H NMR, IR, TGA

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

#### Corporate Office