

Analysis Date: 08-10-2025

Re-test Date: 08-10-2028

## SAXAGLIPTIN IMPURITY 41

### Identification

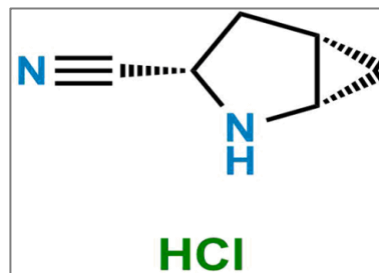
**Chemical Name** : (1S,3S,5S)-2-Azabicyclo[3.1.0]hexane-3-carbonitrile hydrochloride

**CAT No** : ALL-SAX-88

**CAS No** : 865999-67-3

**Molecular Formula** : C<sub>6</sub>H<sub>8</sub>N<sub>2</sub> : HCl

**Molecular Weight** : 108.1 : 36.5



### Analytical Information

<b>Batch No.</b>	: ALL-SAX-88	<b>HPLC Purity</b>	: 98.00%
<b>Solubility</b>	: USP Diluent / EP Diluent (MEOH)	<b>Potency</b>	: 96.85%
<b>Appearance of Product</b>	: Off White Solid	<b>Mass</b>	: Confirm
<b>Long Term Storage</b>	: -20°C	<b>IR Analysis</b>	: Confirm
<b>Weight Loss By TGA</b>	: 0.516%	<b><sup>1</sup>H NMR</b>	: Confirm
<b>Residue Of Ignition</b>	: 0.648%		

### Additional Information

**%Potency** = [100 - (Weight Loss By TGA % + Residue Of Ignition %) × Chromatographic Purity%]/100 =  
 [100 - (0.516+0.648) × 98.00]/100 = 96.85%

**Recommendation** : Released

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

**Attachment** : HPLC, Mass, <sup>1</sup>H NMR, IR, TGA

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

#### Corporate Office