

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

<b>Catalogue Number</b>	38418
<b>Lot Number</b>	003198-210117
<b>Product</b>	<b>Sulbactam</b> (2S,5R)-3,3-Dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-Betamaze
<b>CAS Number</b>	68373-14-8
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>11</sub> NO <sub>5</sub> S
<b>Molecular Weight</b>	233.24

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<b>Appearance</b>	White crystalline powder
<b>Clarity &amp; Color</b>	Color of the solution : Not deeper than No.1 standard solution yellow or yellow green Clarity of solution : Not cloudier than No.1 standard solution of cloudiness
<b>Heavy Metals</b>	< 0.002%
<b>Water Content (Karl Fisher)</b>	0.05%
<b>Optical Rotation</b>	[α] <sup>20</sup> <sub>D</sub> = 247.2 °
<b>UV Ratios</b>	Absorbance : 0.005%
<b>Residual Solvents</b>	Ethyl acetate : 1050 ppm
<b>Related Substances</b>	(2S)-2-Amino-3-methyl-3-sulfinobutanoic acid : 0.02% 6-Aminopenicillanic acid : 0.01% Total impurities : 0.23%
<b>Sulfated Ash</b>	0.02%
<b>Assay (anhydrous basis)</b>	99.7%
<b>Storage</b>	Store at 0-8 °C

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**