

# *Chem-Impex International, Inc.*

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## *Product Specifications*

<b>Catalogue Number</b>	38483
<b>Product</b>	<b>Kanamycin sulfate from Streptomyces</b> Kanamycin A Kanamycin sulfate salt
<b>CAS Number</b>	25389-94-0
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>36</sub> N <sub>4</sub> O <sub>11</sub> •H <sub>2</sub> SO <sub>4</sub>
<b>Molecular Weight</b>	582.6

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<b>Appearance</b>	White or almost white powder
<b>Solubility</b>	Clear and colorless solution
<b>Crystallinity</b>	To pass test
<b>Anion</b>	Sulfate : 15 - 17%
<b>pH</b>	6.5 - 8.5
<b>Optical Rotation</b>	[α] <sup>20</sup> <sub>D</sub> = 116 - 123 °
<b>Loss on Drying</b>	≤ 1.5%
<b>Residual Solvents</b>	To pass test
<b>Bacterial Endotoxins</b>	≤ 0.4 EU/mg
<b>Related Substances</b>	Kanamycin B : ≤ 2% (TLC)
<b>Residue On Ignition</b>	≤ 0.5%
<b>Potency (Anhydrous Basis)</b>	≥ 760 U/mg (on dried basis)
<b>Grade</b>	suitable for cell culture , suitable for plant cell culture
<b>Storage</b>	Store at 0 - 8 °C
<b>Additional Information</b>	Identification A, B, C : To pass test Chromatographic purity : To pass test

**For Laboratory Use Only**