

# Chem-Impex International, Inc.

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**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

<b>Catalogue Number</b>	15154
<b>Lot Number</b>	001204-20171115
<b>Product</b>	<b>Cefpirome Sulfate</b>
<b>CAS Number</b>	98753-19-6
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>22</sub> N <sub>6</sub> O <sub>5</sub> S <sub>2</sub> •H <sub>2</sub> SO <sub>4</sub>
<b>Molecular Weight</b>	612.67
<b>Appearance</b>	White to yellowish white crystalline powder
<b>Clarity &amp; Color</b>	Clarity of solution: Clear solution Color of solution: < Y5#
<b>Water Content (Karl Fisher)</b>	0.8%
<b>pH</b>	2.0
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = -30°
<b>Infrared Spectrum</b>	Conforms to structure
<b>UV Ratios</b>	Absorbance: 270 nm wavelength: 417
<b>Residual Solvents</b>	Methanol: 0.02% Ethanol: 0.1% Acetone: 0.3% Isopropanol: Not Detected Ethyl acetate: 0.006% Dichloromethane: Not Detected N,N-Dimethylformamide: Not Detected
<b>Bacterial Endotoxins</b>	< 0.10 EU/mg
<b>Related Substances</b>	Maximum individual impurity: 0.06% Total impurity: 0.1%
<b>Residue On Ignition</b>	0.08%
<b>Assay (anhydrous basis)</b>	83.3% (Cefpirome C <sub>22</sub> H <sub>22</sub> N <sub>6</sub> O <sub>5</sub> S <sub>2</sub> ) 99.9% (Cefpirome Sulfate C <sub>22</sub> H <sub>22</sub> N <sub>6</sub> O <sub>5</sub> S <sub>2</sub> •H <sub>2</sub> SO <sub>4</sub> )
<b>Storage</b>	Store at 0-8 °C
<b>Additional Information</b>	Sulfate reaction: Positive Sterile: Conforms to standard
<b>Manufacturing Date</b>	11/15/2017

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**Lot Number: 001204-20171115**

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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**

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

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