

# *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>	03597
<b>Product</b>	<b>Chondroitin Sulfate</b>
<b>Lot Number</b>	002036-1311200102 Chondroitin hydrogen sulfate
<b>CAS Number</b>	9007-28-7

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<b>Appearance</b>	White or almost white powder
<b>Appearance of Solution</b>	0.156
<b>Solubility</b>	Freely soluble in water, insoluble in acetone and alcohol.
<b>Bulk density</b>	0.65 g/mL
<b>Heavy Metals</b>	< 20 ppm
<b>Anion</b>	Chloride (Cl): < 0.50% Sulfate: < 0.24%
<b>pH</b>	6.39
<b>Yeast and Mold</b>	< 10 cfu/g
<b>Optical Rotation</b>	[a] = -26.3°
<b>Infrared Spectrum</b>	Conforms to structure
<b>Loss on Drying</b>	≤ 10.0%
<b>Residual Solvents</b>	0.26%
<b>E. Coli</b>	Negative
<b>Salmonella</b>	Negative
<b>Particle Size</b>	100% thru 80 mesh
<b>Related Substances</b>	Individual impurity: < 2%
<b>Residue On Ignition</b>	25.7%
<b>Purity by HPLC</b>	90.15%
<b>Grade</b>	USP
<b>Storage</b>	Store at RT
<b>Additional Information</b>	Sodium Identification: Passes test Total plate count: 50 cfu/g Limit of Protein: 3.2% Assay (CPC titration): 90.41%

## ***Certificate of Analysis***

**Catalog Number: 03597**

**Lot Number: 002036-1311200102**

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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**