

# Chem-Impex International, Inc.

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**Tel:** (630) 766-2112

**E-mail:** sales@chemimpex.com

**Shipping and Correspondence:**

935 Dillon Drive

Wood Dale, IL 60191

**Fax:** (630) 766-2218

**Web site:** www.chemimpex.com

**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Certificate of Analysis

<b>Catalogue Number</b>	03591
<b>Product</b>	<b>β-Cyclodextrin</b>
<b>Lot Number</b>	003518-240104 Cycloheptaamylose Cyclomaltoheptaose
<b>CAS Number</b>	7585-39-9, 68168-23-0
<b>Molecular Formula</b>	C <sub>42</sub> H <sub>70</sub> O <sub>35</sub>
<b>Molecular Weight</b>	1134.98

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<b>Appearance</b>	White crystal powder
<b>Clarity &amp; Color</b>	Clear and colorless solution
<b>Solubility</b>	Slight soluble in water, almost insoluble in methyl alcohol, ethyl alcohol, acetone or diethyl ether.
<b>Odor</b>	Smellless, slight sweet odor
<b>Heavy Metals</b>	< 5 ppm
<b>Water Content (Karl Fisher)</b>	10.5%
<b>pH</b>	5.6
<b>Mould and Yeast</b>	20 cfu/g
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>20</sup> = 162 °
<b>Reducing Sugars</b>	< 0.2%
<b>E. Coli</b>	Absent
<b>Microbial Count</b>	40 cfu/g (TAMC)
<b>Salmonella</b>	Absent
<b>Related Substances</b>	Alpha cyclodextrin : < 0.25% Gamma cyclodextrin : < 0.25% Other related substances : < 0.5% Light absorbing impurities from 230 to 350 nm : < 0.1% Light absorbing impurities from 350 to 750 nm : < 0.05%
<b>Residue On Ignition</b>	0.03%
<b>Assay (anhydrous basis)</b>	99.9%
<b>Grade</b>	Meets USP specification
<b>Storage</b>	Store at RT

# *Certificate of Analysis*

**Catalog Number: 03591**

**Lot Number: 003518-240104**

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**Additional Information**

Identification :

Test for A : Infrared spectrum : Conforms to structure

Test for B : Passes test

Test for C : Passes test

Test for D : Passes test

**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**