

## *Certificate of Analysis*

**Catalogue Number** 338037  
**Lot Number** IL002243A  
**Product** **β-Cyclodextrin**

Cycloheptaamylose

Cyclomaltoheptaose

**CAS Number** 7585-39-9, 68168-23-0  
**Molecular Formula** C<sub>42</sub>H<sub>70</sub>O<sub>35</sub>  
**Molecular Weight** 1134.98

<b>Appearance</b>	White crystalline powder
<b>Appearance of Solution</b>	Clear, colorless
<b>Heavy Metals</b>	< 5 ppm
<b>Water Content (Karl Fisher)</b>	11%
<b>pH</b>	6.5
<b>Mould and Yeast</b>	< 100 CFU/gram
<b>Optical Rotation</b>	[α] = +162°
<b>Reducing Sugars</b>	< 0.2%
<b>Solvent</b>	< 1 ppm
<b>E. Coli</b>	CFU/10G : Absent
<b>Microbial Count</b>	< 1000 CFU/gram
<b>Salmonella</b>	CFU/10G: Absent
<b>Related Substances</b>	Alpha Form: < 0.1% Gamma Form: < 0.1% Other Forms: < 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>	0.0%
<b>Assay</b>	98% (Dry basis)
<b>Grade</b>	USP Grade

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<b>Storage</b>	Store at RT
<b>Manufacturing Date</b>	7/13/2017
<b>Expiration Date</b>	7/12/2020
<b>Remarks</b>	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**