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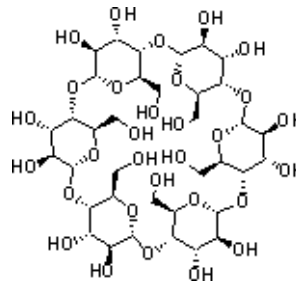
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

 $\alpha$ -Cyclodextrin - powder, BioReagent, suitable for cell culture,  $\geq 98\%$ 

**Product Number:** C4680  
**Batch Number:** 019K10903V  
**Brand:** SIGMA  
**CAS Number:** 10016-20-3  
**MDL Number:** MFCD00078207  
**Formula:** C<sub>36</sub>H<sub>60</sub>O<sub>30</sub>  
**Formula Weight:** 972.84 g/mol  
**Quality Release Date:** 04 FEB 2011  
**Date Retested:** 08 JUL 2013  
**Recommended Retest Date:** JUL 2017



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) 10 mg/mL, H <sub>2</sub> O	Clear	Clear
Water (by Karl Fischer)	$\leq 14.5\%$	9.5 %
Specific Rotation (anhydrous) (C = 1 in H <sub>2</sub> O at 25 deg C)	147 - 152 °	147 °
Purity (HPLC)	$\geq 98\%$	98 %
Cell Culture Test	Pass	Pass

Rodney Burbach, Manager  
Analytical Services  
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.