## Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com Web site: www.chemimpex.com

Shipping and Correspondence: Manufacturing site:

935 Dillon Drive 825 Dillon Drive Wood Dale, IL 60191 Wood Dale, IL 60191

## Certificate of Analysis

Catalogue Number 21825

Productγ-CvclodextrinLot Number002554-20180827

Cycloflo(Tm) 42

CAS Number 17465-86-0
Molecular Formula C<sub>48</sub>H<sub>80</sub>O<sub>40</sub>
Molecular Weight 1297.12

**Appearance** White or almost white amorphous or crystalline powder

Clarity & Color Absorbance < 0.2 at 420 nm

**Solubility** Freely soluble in water and in propylene glycol;

very slightly soluble in alcohol

Mould and Yeast < 25 cfu/gOptical Rotation  $[a]_D^{20} = 175 ^{\circ}$ 

Infrared Spectrum Conforms to structure

Reducing Sugars 0.068%
Loss on Drying 9.6%
E. Coli Absence

**Microbial Count** < 25 cfu/g (TVAC)

Salmonella Absence

**Related Substances** Alpha-cyclodextrin: 0.08%

Beta-cyclodextrin: 0.12% Sum of other impurities: 0.31%

**Residue On Ignition** 0.10%

Assay 99.6% Grade USP

**Storage** Store at 0 - 8 °C

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Catalog Number: 21825 Lot Number: 002554-20180827

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**