

Certificate of Analysis

| | |
|--------------------------|-------------------------|
| Date of Testing: | 2023-08-18 16:58:34 |
| Date of Next Testing: | 2026-08-17 16:58:34 |
| Product Name: | Cyclodextrin HPB |
| CAS Number: | 128446-35-5 |
| Specifications & Purity: | USP grade |
| Lot #: | H2316358 |
| SKU # | C485578 |
| Analysis: | 260784 |
| Storage Temperature: | Room temperature |

| Parameter | Limit Values | Result |
|--|--|--|
| beta-cyclodextrin | 0-1.5 (%) | 0.00000 % |
| Propylene glycol | 0-2.5 (%) | 0.00000 % |
| Loss on drying | 0-10 (%) | 1.21 % |
| Conductivity | 0-200 (μ S/cm) | 82.50000 μ S/cm |
| The Total Number of Aerobic Bacteria | 0-1000 (cfu/g) | 10.00 cfu/g |
| Total number of molds and yeasts | 0-100(cfu/g) | 10.00000 cfu/g |
| Molar substitution degree | 0.4-1.5 | 0.68000 |
| Other individual impurities | 0-0.25 (%) | 0.00000 % |
| Other total impurities | 0-1 (%) | 0.00000 % |
| Propylene oxide | 0-0.0001 (%) | 0.00001 % |
| Appearance(C485578) | White to Off-White amorphous or crystalline powder | White to Off-White amorphous or crystalline powder |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in H ₂ O,Clear and transparent,1g plus 2ml | Pass | Pass |



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager