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TECHNICAL DATA SHEET

Product: Gamma-Cyclodextrin (γ-Cyclodextrin)

1. Product Description

Gamma-Cyclodextrin is a cyclic oligosaccharide composed of eight glucose units, produced from starch by enzymatic conversion. It has the largest cavity among cyclodextrins, offering superior encapsulation and solubilization performance for food, pharmaceutical and cosmetic applications.

2. Specifications

Test Item	Specification
Purity (HPLC)	≥ 99.0%
Appearance	White crystalline powder
Odor & Taste	Characteristic
Identification	Positive
Loss on Drying	≤ 10.0%
Ash	≤ 0.1%
Heavy Metals	≤ 10 ppm
Total Plate Count	≤ 1,000 CFU/g
Yeast & Mold	≤ 100 CFU/g
E. coli	Negative
Salmonella	Negative

3. Applications

Gamma-Cyclodextrin is applied across multiple industries:

- **Food & Beverage —** encapsulation of flavors, vitamins and functional ingredients; improves stability and masks off-taste.
- **Pharmaceutical —** solubilization and stabilization of poorly soluble drug actives.
- **Cosmetics & Personal Care —** encapsulation of actives for controlled release and improved stability.

4. Advantages

- **Largest Cavity —** superior encapsulation capacity among cyclodextrins.
- **High Purity —** HPLC purity ≥ 99% for food and pharma applications.
- **Reliable Quality —** strict quality control with full COA per batch.
- **Flexible Supply —** multiple packaging options to suit different order quantities.

5. Packaging

Packaging:

- 1 kg / Aluminum Foil Bag
- 5 kg / Aluminum Foil Bag
- 25 kg / Fiber Drum with Inner Double PE Bags

6. Storage Conditions

Store in a tightly sealed original package in a cool, dry and well-ventilated place. Protect from moisture and excessive heat.

7. Shelf Life

Typically 24 months when stored under recommended conditions in unopened original packaging. Please refer to the actual product label and COA for confirmation.

The information provided in this Technical Data Sheet is based on our knowledge and experience and is believed to be accurate. It is given in good faith for your reference only and does not constitute a warranty or specification. Buyers should carry out their own tests to determine the suitability of the product for their particular purpose.