

## SPECIFICATION

|  |
|--|
| <b>Product Name:</b> Di Calcium Phosphate Dihydrate Unmilled   |
| <b>Chemical Formula:</b> CaHPO <sub>4</sub> ·2H <sub>2</sub> O |
| <b>CAS Number:</b> 7789-77-7                                   |
| <b>Molecular Weight:</b> 172.09 g/mol                          |
| <b>Appearance:</b> White or almost white, crystalline granules |
| <b>Odor:</b> Odorless  |

### Chemical Composition

| Parameter                 | Unit | Typical Value | Specification (Min/Max) |
|---------------------------|------|---------------|-------------------------|
| Identification A, B & C   | -    | Complies      | -                       |
| Acid insoluble substances | %    | 0.00          | Max 0.2                 |
| Carbonates                | -    | Complies      | To Confirm Test         |
| Chlorides                 | PPM  | <330          | Max 2480                |
| Fluorides                 | PPM  | <50           | Max 50                  |
| Arsenic                   | PPM  | <2            | Max 2                   |
| Barium                    | -    | Complies      | To Confirm Test         |
| Heavy metals (as Pb)      | PPM  | <30           | 30                      |
| Iron                      | PPM  | 177           | Max 400                 |
| Loss on ignition          | %    | 26.03         | 24.5 – 26.5             |

|  |        |          |          |
|--|--------|----------|----------|
| Loss on Drying@60 C                        | %      | 0.2      | Max 1.5  |
| Assay (USP)                                | %      | 99.7     | 98 - 105 |
| Lead (ICP/MS)                              | PPM    | <25      | 0.25     |
| Cadmium (ICP/MS)                           | PPM    | <1       | Max 1    |
| Mercury (ICP/MS)                           | PPM    | <1       | Max 1    |
| Sulphate                                   | %      | <0.16    | Max 0.48 |
| Ph (20%)                                   | %      | 7.5      | 7 - 8    |
| On USS 20 Mesh Sieve                       | %      | 0.00     | Max 1    |
| On USS 40 Mesh Sieve                       | %      | 0.00     | Max 2    |
| On USS 100 Mesh Sieve                      | %      | 61.2     | 40 - 80  |
| Through USS 325 Mesh Sieve                 | %      | 2.8      | Max 5    |
| <b>Microbiological Analysis (In House)</b> |        |          |          |
| Total Aerobic microbial count              | cfu/gm | Complies | Max 1000 |
| Total yeast and mold count                 | cfu/gm | Complies | Max 100  |

### **Physical Properties**

- Solubility: Slightly soluble in water. Insoluble in alcohol. Soluble in dilute acid.

### **Shelf Life & Storage**

- Shelf Life: 5 years from date of manufacture under recommended storage.

- Storage Conditions: Store in a cool, dry, and well-ventilated area. Keep container tightly closed when not in use. Protect from moisture and humidity to prevent caking. Keep away from strong acids and incompatible materials. Avoid direct exposure to sunlight and heat.

**Applications**

- Use: Tablet and capsule diluent (filler). Used in calcium mineral supplements.
- Dosage: Depends on total calcium & phosphorus balance in the formulation.

**Packaging**

- Standard Packing: 25 kg woven PP bags with inner liner, 1Kgs and 100grams, or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

\* Specifications are based on the manufacturer's provided specifications.