

## TECHNICAL DATA SHEET: VITAMIN A, D3, K3

### 1. CHEMICAL & PHYSICAL SPECIFICATIONS

- **Vitamin A (Retinyl Acetate/Palmitate):** Activity as per customer specification (e.g., 500,000 IU/g)
- **Vitamin D3 (Cholecalciferol):** Activity as per customer specification (e.g., 100,000 IU/g)
- **Vitamin K3 (MNB/MSB):** Activity as per customer specification
- **Appearance:** Yellowish to brownish free-flowing microcapsules or powder
- **Solubility:** Water-dispersible options available

### 2. SAFETY, CONTAMINANTS & LOGISTICS

- **Microbiology:** Total Plate Count < 1,000 cfu/g; Salmonella absent in 25g
- **Storage:** Store in a cool (<15°C), dark, and dry place; highly sensitive to light and oxygen
- **Shelf Life:** 12–18 months in original sealed packaging
- **Packaging:** 5kg or 25kg aluminum foil bags/drums

### 3. COMPLIANCE DECLARATION

- Product is a stabilized premix of essential fat-soluble vitamins
- Compliant with EU Regulation 1831/2003 for nutritional additives
- Carrier materials are 100% vegetable-based and non-GMO