

TECHNICAL DATA SHEET: VITAMIN B12

1. CHEMICAL & PHYSICAL SPECIFICATIONS

- **Assay (Pure):** Min 98.0% (or 0.1% / 1% feed-grade dilutions)
- **Appearance:** Dark red crystalline powder (Pure) or light pink powder (Dilution)
- **Loss on Drying:** Max 12.0% (Pure)
- **Solubility:** Sparingly soluble in water and ethanol

2. SAFETY, CONTAMINANTS & LOGISTICS

- **Microbiology:** Total Plate Count < 1,000 cfu/g; Yeasts & Moulds < 100 cfu/g
- **Storage:** Store in a cool, dark, and dry place; keep tightly sealed
- **Shelf Life:** 24 months
- **Packaging:** 1kg or 5kg aluminum foil bags (Pure) / 25kg bags (Dilutions)

3. COMPLIANCE DECLARATION

- Product is obtained via fermentation processes
- Fit for human consumption and animal feed (essential for DNA synthesis and metabolism)
- Compliant with EU and international pharmacopoeia standards