

XIAMEN KINGDOMWAY BIOTECH. CO., LTD.

VCR-24E1506

CERTIFICATE OF ANALYSIS

Report Date: MAR 18, 2024

Name: Vitamin D₃ Powder Quantity: 500kg
 Batch No.: 5431-2403003 Type: CWD(Food Grade)
 Manu. Date: MAR.08, 2024 Expiry Date: MAR.07, 2026
 Spec.: 100,000IU/g Standard: USP43

| ITEM | SPECIFICATION | RESULT | TEST METHOD |
|---|---|-------------|----------------|
| 1. Appearance | White or off-white free flowing powder | Complies | Visual |
| 2. Loss on drying | ≤ 5.0% | 3.55% | USP <731> |
| 3. Vitamin D ₃ Content | ≥ 100,000IU/g | 106,500IU/g | HPLC (EP) |
| 4. Water Dispersibility | Easily dispersed in cold water 15°C to form a homogeneous and stable emulsion | Complies | 1g/100ml water |
| 5. Granularity: go through the sieve of 60 mesh | ≥ 90.0% | 98.8% | USP <786> |
| 6. Heavy Metal | ≤ 10ppm | Complies | USP <231> |
| 7. Lead | ≤ 2ppm | <1ppm | AAS |
| 8. Arsenic | ≤ 1ppm | <1ppm | AFS |
| 9. Mercury | ≤ 0.1ppm | <0.1ppm | AFS |
| 10. Cadmium | ≤ 1ppm | <1ppm | AAS |
| 11. Microbial Limit Test | | | |
| (1) Total Plate Count | ≤ 1000cfu/g | <10cfu/g | USP <2021> |
| (2) Yeast & Mold | ≤ 100cfu/g | <10cfu/g | USP <2021> |
| (3) Coliforms | ≤ 0.3MPN/g | <0.3MPN/g | USP <2022> |
| (4) E. Coli | Negative/10g | Negative | USP <2022> |
| (5) Salmonella | Negative/25g | Negative | USP <2022> |
| (6) S. aureus | Negative/25g | Negative | USP <2022> |

Conclusion: Conform to USP43.

Storage: Store in tightly closed original container, protected from light, in a dry place at room temperature (max. 25°C).



For & on behalf of
 Xiamen Kingdomway Biotech. Co., Ltd.

[Handwritten Signature]
 Authorized Signature

File No. XKG-B-4001-00