

CERTIFICATE OF ANALYSIS

ProVital M24™ - Men's Testosterone Support Formula

NuCoreBio Formula Code: NCB-MH-001 · White Label SKU: NCB-WL-M01

BATCH / LOT NUMBER:**NCB-2026-WL-M01-0315**

Manufacturing Date: 15 March 2026

Expiry Date: 14 March 2028

Batch Size: 5,000 units

Report Date: 18 March 2026

Report No.: NCB-QC-2026-0315-001

PRODUCT INFORMATION

| | | | |
|---------------------------|--|--------------------------|------------------------------|
| Product Name: | ProVital M24™ Men's Testosterone Support Formula | Product Form: | Hard Capsule (HPMC) |
| Batch / Lot Number: | NCB-2026-WL-M01-0315 | Fill Weight per Capsule: | 550mg ± 3% |
| Capsule Count per Bottle: | 60 capsules | Serving Size: | 2 capsules |
| Manufacturing Site: | NuCoreBio Partner Facility — GMP Certified | Shelf Life: | 24 months from mfg. date |
| Storage Conditions: | Below 25°C, protect from moisture and light | Testing Lab: | ISO/IEC 17025 Accredited — T |

SECTION 1: ACTIVE INGREDIENT POTENCY — HPLC ANALYSIS

| Active Ingredient | Specification | Result | Method | Instrument | Status | Reference |
|------------------------------|----------------|--------------|---------------|--------------------|--------|---------------------|
| Tongkat Ali (Eurycomanone) | ≥ 1.00% | 1.18% | HPLC-UV | Agilent 1260 | PASS ✓ | Tambi et al. 2012 |
| Ashwagandha (Withanolides) | ≥ 5.00% | 5.34% | HPLC-DAD | Agilent 1260 | PASS ✓ | Chandrasekhar 2012 |
| Fenugreek (Furost. Saponins) | ≥ 50.00% | 52.8% | UV-Vis / HPLC | Shimadzu UV | PASS ✓ | Wilborn et al. 2010 |
| Boron (elemental, ICP) | ≥ 3.00 mg/g | 3.42 mg/g | ICP-MS | PerkinElmer NexION | PASS ✓ | Naghii et al. 2011 |
| Zinc (elemental, ICP) | ≥ 20.00 mg/g | 21.8 mg/g | ICP-MS | PerkinElmer NexION | PASS ✓ | Kilic et al. 2010 |
| Vitamin D3 (Cholecalciferol) | ≥ 100,000 IU/g | 108,200 IU/g | HPLC-UV (USP) | Waters Alliance | PASS ✓ | USP <1150> |
| Piperine (Black Pepper) | ≥ 95.00% | 96.2% | HPLC-UV | Agilent 1260 | PASS ✓ | BioPerine® spec |

SECTION 2: HEAVY METALS — ICP-MS ANALYSIS (USP <232>)

| Element | Limit (USP <232>) | Result (ppm) | Method | LOD (ppm) | Calibration | Status |
|--------------|-------------------|---------------------|----------------|-----------|--------------------|--------|
| Lead (Pb) | ≤ 1.0 ppm | 0.042 ppm | ICP-MS | 0.010 ppm | Multi-element std | PASS ✓ |
| Cadmium (Cd) | ≤ 0.3 ppm | < LOD (< 0.010 ppm) | ICP-MS | 0.010 ppm | Multi-element std | PASS ✓ |
| Arsenic (As) | ≤ 1.0 ppm | 0.089 ppm | ICP-MS | 0.020 ppm | Multi-element std | PASS ✓ |
| Mercury (Hg) | ≤ 0.1 ppm | < LOD (< 0.005 ppm) | ICP-MS / CVAAS | 0.005 ppm | Certified ref. std | PASS ✓ |

SECTION 3: MICROBIAL TESTING — USP <2021>

| Test | Specification | Result | Method | Incubation | Status |
|----------------------------------|----------------|------------|-------------------------|--------------------|--------|
| Total Aerobic Plate Count (TAPC) | 100,000 CFU/g | 420 CFU/g | USP <2021> Pour plate | 48h at 30–35°C | PASS ✓ |
| Total Yeast & Mold Count (TYMC) | 100 CFU/g | < 10 CFU/g | USP <2021> Pour plate | 20–25°C | PASS ✓ |
| Bile-tolerant gram-neg. bacteria | 100 CFU/g | < 10 CFU/g | USP <2021> | 48h at 30–35°C | PASS ✓ |
| Escherichia coli | Absence in 1g | Absent | USP <2021> BAM | 48h incubation | PASS ✓ |
| Salmonella species | Absence in 25g | Absent | USP <2021> BAM | 48h pre-enrichment | PASS ✓ |
| S. aureus (Staph) | Absence in 1g | Absent | USP <2021> Baird-Parker | 48h at 30–35°C | PASS ✓ |
| P. aeruginosa | Absence in 1g | Absent | USP <2021> cetrimide | 48h at 30–35°C | PASS ✓ |

SECTION 4: PHYSICAL & CHEMICAL TESTING

| Test Parameter | Specification | Result | Method | Instrument | Status |
|---------------------------------|----------------------------------|-----------------------------|--------------------|--------------------------|--------|
| Fill Weight per Capsule (n=20) | 550mg ± 3% (533–567mg) | 549.8mg avg; CV 0.62% | Gravimetric, n=20 | Analytical balance | PASS ✓ |
| Capsule Disintegration Time | < 30 minutes at 37°C | 9 min 22 sec | USP <701> | Disintegration apparatus | PASS ✓ |
| Moisture / LOD (Loss on Drying) | 5.0% | 3.2% | USP <731> | Karl Fischer | PASS ✓ |
| Capsule Appearance | HPMC cap; no cracks; complete | Compliant — white/off-white | Visual | HPMC cap (n=20) | PASS ✓ |
| Capsule Fill Colour / Odour | Tan/brown powder; characteristic | Compliant — no off-notes | Visual + olfactory | — | PASS ✓ |
| Label Reconciliation / Count | Quantity matches batch | 5,000 units — reconciled | Physical count | — | PASS ✓ |

BATCH DISPOSITION: APPROVED FOR RELEASE

All test parameters meet or exceed specification requirements.
This batch is approved for labeling, packaging, and dispatch to client.

Testing Laboratory: [Independent ISO/IEC 17025 Accredited Third-Party Laboratory — Name available under NDA]
Lab Report Reference: [Lab internal report number — available on request under NDA]

QA Signatory: NuCoreBio QA Director · Signed: [Digital signature on file] · Date: 18 March 2026

ABOUT THIS SAMPLE COA:

This document is a representative sample COA demonstrating the testing depth and analytical rigour NuCoreBio applies to every batch. Actual batch COAs include the same test sections and are accompanied by HPLC chromatograms and ICP-MS raw data. To request a current lot COA for any SKU: Mc5896538@outlook.com | WhatsApp: +86 15866920149 | Reference: NCB-COA-073