

Certificate of Analysis Report

DNA Healthcare Solutions
1441 Canal Street, New Orleans, LA 70112
Office: 318-693-1838
Fax: 318-987-8380
Certificate Registration No.: MS10090877Y/GP/1
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Final Report

Nexus Bio Life Health

5830 E 2nd St, Ste 7000 #23282
Casper, WY 82609
info@nexusbiolife.com
www.nexusbiolife.com

Laboratory Director: Richard Gomez, M.D.
Clinical Director: Blythe Bowman, M.D.

Product Information

Name: TB-500
Quantity: 500mcg
Molecular Weight: 4963 g/mol
Formula: $C_{212}H_{350}N_{56}O_{78}S$
CAS: 77591-33-4

Sample Information

COA No: CA202602274238
Date Received: 02/27/2026 10:12 AM
Result Date: 03/07/2026 8:42 PM
Lot Number: 1225022
Sample Type: Capsules

Tested Product Results

TB-500 (Thymosin Beta-4) 500mcg

Panel Chemical Analysis

| Analysis | Method | Specification | Result | Qualitative Result |
|------------------------|-------------|-----------------|-----------------|--------------------|
| Identity | HPLC-UV/VIS | Thymosin Beta-4 | Thymosin Beta-4 | Conforms |
| Chromatographic Purity | HPLC-UV/VIS | >98% | 99.53%±0.18% | Conforms |
| Quantity | HPLC-UV/VIS | 500mcg | 432.97 mcg | Conforms |
| pH Value | HPLC-UV/VIS | 6.0 - 8.0 | 6.5 | Conforms |

Panel Heavy Metals

| Analysis | Standard | Qualitative Result |
|----------|-----------|--------------------|
| Antimony | <0.5 ug/g | Non-Detect |
| Cadmium | <0.5 ug/g | Non-Detect |
| Arsenic | <1.5 ug/g | Non-Detect |
| Lead | <0.5 ug/g | Non-Detect |

Panel Microbial Summary Analysis

| Organism | Standard | Results | Qualitative |
|-----------------------|----------|--------------|-------------|
| E. coli | USP RS | Not Detected | Negative |
| Salmonella enterica | USP RS | Not Detected | Negative |
| Staphylococcus aureus | USP RS | Not Detected | Negative |
| Yeast and Mold | USP RS | Not Detected | Negative |
| Enterobacter | USP RS | Not Detected | Negative |

Certified By:

A handwritten signature in black ink, appearing to read "Melissa Restivo".

Melissa Restivo
Analytical Chemist
03/06/2026

Panel Full Microbial Analysis

| Organism | Results | Qualitative |
|---|--------------|-------------|
| <i>Acinetobacter baumannii</i> | Not Detected | Negative |
| <i>Anaerococcus vaginalis</i> | Not Detected | Negative |
| <i>Bacteroides fragilis</i> (Enterotoxigenic ETBF) | Not Detected | Negative |
| <i>Campylobacter jejuni</i> , coli | Not Detected | Negative |
| <i>Citrobacter freundii</i> | Not Detected | Negative |
| <i>Clostridium botulinum</i> | Not Detected | Negative |
| <i>Clostridium difficile</i> (toxins A, B genes) | Not Detected | Negative |
| <i>Clostridium perfringens</i> , novyi, septicum | Not Detected | Negative |
| <i>Corynebacterium jeikeium</i> , striatum, tuberculostearicum | Not Detected | Negative |
| <i>E. coli</i> (DAEC) Diffusely adherent + <i>E. coli</i> (EAEC) Enteroaggregative | Not Detected | Negative |
| <i>E. coli</i> (EHEC) O157 Enterohemorrhagic + <i>E. coli</i> enteropathogenic | Not Detected | Negative |
| <i>E. coli</i> (EIEC) Enteroinvasive/Shigella spp | Not Detected | Negative |
| <i>E. coli</i> (ETEC) Enterotoxigenic | Not Detected | Negative |
| <i>Fingoldia magna</i> | Not Detected | Negative |
| <i>Helicobacter pylori</i> | Not Detected | Negative |
| <i>Klebsiella</i> spp. | Not Detected | Negative |
| <i>Klebsiella pneumoniae</i> , oxytoca | Not Detected | Negative |
| <i>Listeria monocytogenes</i> | Not Detected | Negative |
| <i>Proteus mirabilis</i> , vulgaris | Not Detected | Negative |
| <i>Pseudomonas aeruginosa</i> | Not Detected | Negative |
| <i>Salmonella enterica</i> | Not Detected | Negative |
| <i>Serratia marcescens</i> | Not Detected | Negative |
| Staphylococcal enterotoxins A, B | Not Detected | Negative |
| <i>Vibrio cholerae</i> , parahaemolyticus, vulnificus | Not Detected | Negative |
| <i>Enterobacter aerogenes</i> , cloacae | Not Detected | Negative |
| <i>Enterococcus faecalis</i> , faecium | Not Detected | Negative |
| <i>Mycoplasma genitalium</i> , hominis | Not Detected | Negative |
| <i>Prevotella bivia</i> , loescheii | Not Detected | Negative |
| <i>Staphylococcus</i> (coagulase negative: epidermidis, haemolyticus, lugdunensis, saprophyticus) | Not Detected | Negative |
| <i>Staphylococcus aureus</i> | Not Detected | Negative |
| <i>Streptococcus agalactiae</i> (Group B strep) | Not Detected | Negative |
| <i>Candida albicans</i> , glabrata, parapsilosis, tropicalis | Not Detected | Negative |
| <i>Aspergillus flavus</i> , fumigatus, niger, terreus | Not Detected | Negative |
| <i>Blastomyces dermatitidis</i> | Not Detected | Negative |
| <i>Cladosporium herbarum</i> | Not Detected | Negative |
| <i>Curvularia lunata</i> | Not Detected | Negative |
| <i>Fusarium oxysporum</i> , solani | Not Detected | Negative |
| <i>Fusobacterium nucleatum</i> , necrophorum | Not Detected | Negative |
| <i>Haemophilus influenzae</i> | Not Detected | Negative |
| <i>Malassezia furfur</i> , restricta, sympodialis, globosa | Not Detected | Negative |

| | | |
|---|--------------|----------|
| Peptoniphilus harei, ivorii | Not Detected | Negative |
| Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii | Not Detected | Negative |
| Stenotrophomonas maltophilia | Not Detected | Negative |
| Streptococcus pneumoniae | Not Detected | Negative |
| Streptococcus pyogenes (Group A strep) | Not Detected | Negative |
| Epidermophyton floccosum | Not Detected | Negative |
| Microsporium audouinii, canis, gypseum | Not Detected | Negative |

Panel Controls

| Control | Results |
|-------------------------------------|---|
| Dnase Free Water (Negative Control) | PASS |
| RNase P Genes (Human DNA Control) | PASS |
| Pump A | 0.1% Trifluoroacetic Acid (v/v), Optima™ LC/MS Grade in 100% water |
| Pump B | 0.1% Trifluoroacetic Acid (v/v), Optima™ LC/MS Grade in 100% acetonitrile |
| Total Flow | 1.0mL/min |
| Analytical Column Type | Agilent ZORBAX StableBond 5uM C18 (4.6*250mm*5uM) |
| Dissolution Method | 100% H2O |

Certified By:



Melissa Restivo

Analytical Chemist

03/06/2026

Legal Notices and Disclaimer:

This test was developed, and its performance characteristics determined by DNA Healthcare Solutions. It has not been cleared or approved by the US Food and Drug Administration. FDA does not require this test to go through premarket FDA review. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments (CLIA) as qualified to perform high complexity clinical laboratory testing.

The ISO certifications are associated with PetVet Dx Laboratory Services, 1441 Canal Street, New Orleans, LA, which is performing the tests for DNA Healthcare Solutions.

Samples were received in acceptable condition. The result(s) in this report relate only to the portion of the sample(s) tested. All analyses were performed consistent with the Laboratory Quality Management System. The Laboratory and its staff did not observe or participate in the sample selection process, and cannot confirm the authenticity of the sample or its representativeness of the associated lot/batch.

The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The peptides tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables.

A positive detection indicates the presence of the target microorganism(s). A negative detection does not imply the absence of microorganisms other than those listed or does not exclude the possibility that the target sequence is present below the limit of detection. The presence of mutations within the primer regions may lower the test sensitivity. It is recommended that the test results be interpreted in conjunction with all other medical information relevant to the patient's clinical condition in accordance with appropriate patient management procedures.