

# Certificate of Analysis Report



DNA Healthcare Solutions  
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Certificate Registration No.: MS10090877Y/GP/1  
ISO 17025:2017 13485:2016

Final Report

## Nexus Bio Life Health

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Laboratory Director: Richard Gomez, M.D.  
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## Product Information

Name: SEMA  
Quantity: 160 mcg  
Molecular Weight: 4114 g/mol  
Formula:  $C_{187}H_{291}N_{45}O_{59}$   
CAS: 910463-68-2

## Sample Information

COA No: CA202602274242  
Date Received: 02/27/2026 10:12 AM  
Result Date: 03/07/2026 9:02 PM  
Lot Number: 1225011  
Sample Type: Capsules

# Tested Product Results

## SEMA (GLP-1) 160mcg

### Panel Chemical Analysis

Analysis	Method	Specification	Result	Qualitative Result
Identity	HPLC-UV/VIS	Semaglutide	Semaglutide	Conforms
Chromatographic Purity	HPLC-UV/VIS	>98%	99.35%±0.18%	Conforms
Quantity	HPLC-UV/VIS	160mcg	156.76 mcg	Conforms
pH Value	HPLC-UV/VIS	6.0 - 8.0	7.0	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:

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, coli</i>	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, novyi, septicum</i>	Not Detected	Negative
<i>Corynebacterium jeikeium, striatum, tuberculostearicum</i>	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, oxytoca</i>	Not Detected	Negative
<i>Listeria monocytogenes</i>	Not Detected	Negative
<i>Proteus mirabilis, vulgaris</i>	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, parahaemolyticus, vulnificus</i>	Not Detected	Negative
<i>Enterobacter aerogenes, cloacae</i>	Not Detected	Negative
<i>Enterococcus faecalis, faecium</i>	Not Detected	Negative
<i>Mycoplasma genitalium, hominis</i>	Not Detected	Negative
<i>Prevotella bivia, loescheii</i>	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, glabrata, parapsilosis, tropicalis</i>	Not Detected	Negative
<i>Aspergillus flavus, fumigatus, niger, terreus</i>	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, solani</i>	Not Detected	Negative
<i>Fusobacterium nucleatum, necrophorum</i>	Not Detected	Negative
<i>Haemophilus influenzae</i>	Not Detected	Negative
<i>Malassezia furfur, restricta, sympodialis, globosa</i>	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.