

WHEAT ZOOMER DEMO

Name: WHEAT ZOOMER DEMO
Date of Birth: 01-01-1111
Gender: Male
Age: 01
Height:
Weight:
Fasting: UNKNOWN

Telephone: 000-000-0000
Street Address:
Email:

FINAL REPORT

Accession ID: 2308020585

Provider Information

Practice Name: DEMO CLIENT, MD Telephone: 000-000-0000
Provider Name: DEMO CLIENT, MD Address: 3521 Leonard Ct, Santa Clara, CA 95054
Phlebotomist: 0

Report Information

Current Result Previous Result In Control Moderate Risk

Specimen Information

Sample Type	Collection Time	Received Time	Report	Final Report Date
Serum	2023-08-02 00:00 (PDT)	2023-08-03 12:54 (PDT)	Wheat Zoomer - P2	2023-08-10 10:13 (PDT)

SAMPLE



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TNP Test not performed

R&L Refer to risks and limitations at the end of report

Notes Refer to Lab notes at the end of the table

INTRODUCTION

Vibrant Wellness is pleased to present to you Wheat Zoomer testing, to help you make healthy lifestyle and dietary choices in consultation with your healthcare provider. It is intended to be used as a tool to encourage a general state of health and well-being. The Vibrant Wheat Zoomer is a wheat sensitivity analytics tool consisting of a microarray platform of wheat antigens which offers very specific antibody-to-antigen recognition. The panel is designed to assess an individual's IgG and IgA sensitivity to these antigens at the peptide and protein level. Additionally, the panel tests for the HLA isoforms associated with celiac disease and wheat allergy testing is performed by testing for IgE antibodies against wheat.

Methodology:

The Vibrant Wheat Zoomer test is a semiquantitative assay that detects IgG, IgA, IgM and IgE antibodies in human serum/DBS for wheat antigens with multiplexed chemiluminescence immunoassay (CLIA) methodology.

Interpretation of Report:

The summary score provided for Wheat Zoomer is a unified score calculated from the IgE, IgA and IgG reactivity of the individual to the respective antigens with higher weightage for IgE than IgA than IgG. Weightage is also assigned to the antigens based on their importance and abundance in the specific food that is tested. The intestinal permeability score is a unified score calculated from the serum zonulin result and antibody reactivity to the antigens in the Intestinal Permeability panel (anti-zonulin IgA, anti-zonulin IgG, anti-actin IgA, anti-actin IgG, and anti-LPS IgA and anti-LPS IgG+IgM), with higher weightage for IgA than IgG. This considers the titer value even when the result may be in control. Additionally, the summary page summarizes the list of antigens with antibody titers that are outside the normal reference range.

This is followed by a complete list of all antigens tested including IgG, IgA and IgM antibody titers (as applicable for each analyte tested). Reference ranges have been established for pediatric and adult population using 2000 healthy individuals. A classification of Green denotes a results that is within the normal reference range, the classification of Yellow denotes a result that is moderately elevated titer with respect to the reference range and the classification of Red denotes a result that is elevated with respect to the normal reference range. Vibrant utilizes proprietary reporter analysis which is designed to assay specific total IgG (subclasses 1, 2, 3, 4), total IgA (subclasses 1, 2) and total IgM antibodies. Additionally, the previous value (if available) is also indicated to help check for improvements every time the test is ordered.

The Vibrant Wellness platform provides tools for you to track and analyze your general wellness profile. Testing for Wheat Zoomer panel is performed by Vibrant America, a CLIA certified lab CLIA#:05D2078809. Vibrant Wellness provides and makes available this report and any related services pursuant to the Terms of Use Agreement (the "Terms") on its website at www.vibrant-wellness.com. By accessing, browsing, or otherwise using the report or website or any services, you acknowledge that you have read, understood, and agree to be bound by these terms. If you do not agree to accept these terms, you shall not access, browse, or use the report or website. The statements in this report have not been evaluated by the Food and Drug Administration and are only meant to be lifestyle choices for potential risk mitigation. Please consult your physician/dietitian for medication, treatment, or lifestyle management. This product is not intended to diagnose, treat, or cure any disease.



Please note:



It is important that you discuss any modifications to your diet, exercise, and nutritional supplementation with your physician before making any changes.

Allergen

No markers are outside the normal reference range

Wheat Zoomer

Wheat Score	Current	Previous	Result	Reference
Wheat Zoomer Score	>6			≤2.0
Intestinal Permeability Score	4.0			≤2.0

Intestinal Permeability Panel	Current	Previous	Result	Reference
Anti-Zonulin IgA	1.34			≤0.89
Anti-Zonulin IgG	2.97			≤0.89


Anti-Zonulin agents are inhibitors targeting the zonulin protein, which plays a role in regulating intestinal permeability. These agents aim to modulate and stabilize tight junctions in the gastrointestinal tract, potentially offering therapeutic benefits for conditions like celiac disease or other disorders linked to increased gut permeability.

Human Anti-Lipopolysaccharide IgG	411.9			≤281.0 (U/ml)
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Anti-LPS are lipopolysaccharide antagonists that specifically target and neutralize the lipopolysaccharide (LPS) molecules found on the outer membrane of Gram-negative bacteria. These agents can prevent the inflammatory responses triggered by LPS in host organisms, potentially mitigating the harmful effects of bacterial endotoxins in septic conditions.


Anti-Actin IgG	1.08			≤0.89
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Anti-Actin antibodies are specific binders targeting the actin protein, an essential component of the cytoskeleton in all eukaryotic cells. These antibodies are routinely utilized in cell biology research to visualize and study the organization and dynamics of actin filaments, enabling insights into cellular processes such as migration, division, and morphogenesis.


Gliadin Panel	Current	Previous	Result	Reference
Alpha Gliadin IgA	1.37			≤0.89

Gliadin constitutes a class of proteins that are present in wheat and other cereal which give it the ability to rise properly when baked. The main types of gliadin are alpha, gamma and omega gliadins. Most commercial ELISA plates focus only on the alpha/gamma gliadin component and its deamidated forms. Research has however shown that antibody reactivity against all the 3 main forms of gliadin are found in individuals with 'Wheat related disorders'. The Vibrant Wheat Zoomer covers all known gliadins from all the different wheat species in both native and deamidated form making it the most comprehensive test against gliadins. The Vibrant Wheat Zoomer also includes all the key gliadin motifs—33mer alpha gliadin, 26mer gamma gliadin, 17mer omega gliadin.


Wheat Zoomer

Gliadin Panel		Current	Previous	Result	Reference
Prodynorphin	IgG	2.10			≤0.89



Prodynorphin is an opioid that is a basic building block of endorphins.

Glutenin Panel		Current	Previous	Result	Reference
LMW Glutenin	IgG	1.82			≤0.89

Glutenin is a major protein found in wheat and constitutes about 47% of its protein content. Glutenin is responsible for the strength and elasticity of dough. The main types of glutenin are the LMW (low molecular weight) and the HMW (high molecular weight) glutenin. HMW glutenin has been associated with Celiac disease, asthma, Atopic dermatitis, Urticaria and Anaphylaxis. LMW Glutenin has been associated with Celiac disease, asthma, Atopic dermatitis, Urticaria and Anaphylaxis.


Non-Gluten Wheat Panel		Current	Previous	Result	Reference
Purin	IgG	1.86			≤0.89

Purin proteins are legumin-like 12 S globulin storage proteins encoded at Tri-A1 and Tri-D1 on the short arms of chromosomes 1A and 1D. The native proteins exist as hetero-tetramers composed of long and short arms from two cleaved, disulfide-linked triticin precursors.

Wheat Germ Panel		Current	Previous	Result	Reference
Wheat Germ Agglutinin	IgA	1.64			≤0.89
	IgG	1.12			≤0.89

Wheat germ agglutinin is a lectin that protects wheat from bacteria, yeast and insects and is naturally found in all wheat varieties. The Vibrant Wheat Zoomer includes the different agglutinins from both T.aestivum and T.urartu varieties. Lectins have the capacity to bind to different cell types and are also resistant to digestive enzymes making them a possible candidate for immune-sensitivity. Wheat Germ Agglutinin (WGA) irritates and causes premature cell death in the gut and has been known to lead to a leaky gut condition. WGA also disrupts the mucus membrane in the gut, which can cause bacterial overgrowth and lead to a host of digestive issues like GERD and ulcers.

Allergen

Test Name	Current	Previous	Result	Reference
Wheat IgE (kU/L)	<0.1			≤0.34

Wheat Zoomer

Intestinal Permeability Panel	Current	Previous	Result	Reference
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Zonulin (ng/mL)	16.6			≤45.3
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Intestinal Permeability Panel	Current	Previous	Result	Reference
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Anti-Zonulin	IgA	1.34		≤0.89
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	IgG	2.97		≤0.89
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Anti-Actin	IgA	0.34		≤0.89
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	IgG	1.08		≤0.89
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Human Anti-Lipopolysaccharide	IgA	23.7		≤30.0 (U/ml)
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	IgG	411.9		≤281.0 (U/ml)
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Celiac	Current	Previous	Result	Reference
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DGP	IgA	0.59		≤0.94
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	IgG	0.37		≤0.94
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Transglutaminase 2	IgA	0.56		≤0.94
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	IgG	0.35		≤0.94
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tTG/DGP Complex	Current	Previous	Result	Reference
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tTG/DGP Fusion Peptide	IgA	0.79		≤0.89
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	IgG	0.45		≤0.89
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Glutadin Panel	Current	Previous	Result	Reference
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Alpha Gliadin	IgA	1.37		≤0.89
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	IgG	0.38		≤0.89
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Wheat Zoomer					
Gliadin Panel		Current	Previous	Result	Reference
Alpha-Beta Gliadin	IgA	0.65			≤0.89
	IgG	0.55			≤0.89
Gamma Gliadin	IgA	0.54			≤0.89
	IgG	0.36			≤0.89
Omega Gliadin	IgA	0.73			≤0.89
	IgG	0.53			≤0.89
Gluteomorphen	IgA	0.60			≤0.89
	IgG	0.78			≤0.89
Prodynorphin	IgA	0.22			≤0.89
	IgG	2.10			≤0.89
Glutenin Panel		Current	Previous	Result	Reference
HMW Glutenin	IgA	0.61			≤0.89
	IgG	0.41			≤0.89
LMW Glutenin	IgA	0.56			≤0.89
	IgG	1.82			≤0.89
Non-Gluten Wheat Panel		Current	Previous	Result	Reference
Serpins	IgA	0.60			≤0.89
	IgG	0.37			≤0.89
Farinins	IgA	0.68			≤0.89
	IgG	0.39			≤0.89
Amylase/Protease Inhibitors	IgA	0.21			≤0.89
	IgG	0.45			≤0.89

Wheat Zoomer					
Non-Gluten Wheat Panel		Current	Previous	Result	Reference
Globulins	IgA	0.45			≤0.89
	IgG	0.49			≤0.89
Purinin	IgA	0.46			≤0.89
	IgG	1.86			≤0.89
Wheat Germ Panel		Current	Previous	Result	Reference
Wheat Germ Agglutinin	IgA	1.64			≤0.89
	IgG	1.12			≤0.89
Transglutaminase Panel		Current	Previous	Result	Reference
Transglutaminase 3	IgA	0.29			≤0.89
	IgG	0.27			≤0.89
Transglutaminase 6	IgA	0.24			≤0.89
	IgG	0.21			≤0.89

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Risk and Limitations

This test has been developed and its performance characteristics determined by Vibrant America LLC., a CLIA certified lab. These assays have not been cleared or approved by the U.S. Food and Drug Administration. Vibrant Wellness provides additional contextual information on these tests and provides the report in a more descriptive fashion.

Allergen-specific IgE assays do not demonstrate absolute positive and negative predictive values for allergic disease. Clinical history must be incorporated into the diagnostic determination. Quantification of specific IgG, IgA, IgM antibodies is not an FDA- recognized diagnostic indicator of allergy.

Wheat Zoomer testing is performed at Vibrant America, a CLIA certified laboratory, and utilizes ISO-13485 developed technology. Vibrant America has effective procedures in place to protect against technical and operational problems. However, such problems may still occur. Examples include failure to obtain the result for a specific test due to circumstances beyond Vibrant's control. Vibrant may re-test a sample to obtain these results but upon re-testing the results may still not be obtained. As with all medical laboratory testing, there is a small chance that the laboratory could report incorrect results. A tested individual may wish to pursue further testing to verify any results.

The information in this report is intended for educational purposes only. While every attempt has been made to provide current and accurate information, neither the author nor the publisher can be held accountable for any errors or omissions. Tested individuals may find their experience is not consistent with Vibrant's selected peer reviewed scientific research findings of relative improvement for study groups. The science in this area is still developing and many personal health factors affect diet and health. Since subjects in the scientific studies referenced in this report may have had personal health and other factors different from those of tested individuals, results from these studies may not be representative of the results experienced by tested individuals. Further, some recommendations may or may not be attainable, depending on the tested individual's physical ability or other personal health factors. A limitation of this testing is that many of these scientific studies may have been performed in selected populations only. The interpretations and recommendations are done in the context of these studies, but the results may or may not be relevant to tested individuals of different or mixed ethnicities.

Vibrant Wellness makes no claims as to the diagnostic or therapeutic use of its tests or other informational materials. Vibrant Wellness reports and other information do not constitute medical advice and are not a substitute for professional medical advice. Please consult your healthcare practitioner for questions regarding test results, or before beginning any course of medication, supplementation, or dietary changes.

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