GRAIN ZOOMER DEMO

Name: GRAIN 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
Provider Name: DEMO CLIENT, MD
Phlebotomist: 0

Telephone: 000-000-0000
Address: 3521 Leonard Ct, Santa Clara, CA 95054

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)	Grain Zoomer - P2	2023-08-14 15:47 (PDT)

VibrantWellness
3521 Leonard Ct, Santa Clara, CA 95054
1-866-364-0963 | support@vibrant-america.com | www.vibrant-america.com

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

Grain Zoomer

INTRODUCTION

Vibrant Wellness is pleased to present to you 'Grain Zoomer', 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 Grain Zoomer is an array of commonly consumed Grain 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.

Methodology:

The Vibrant Immunochip test is a semiquantitative assay that detects IgG and IgA antibodies in human serum/DBS for Grain antigens with multiplexed chemiluminescence immunoassay (CLIA) methodology.

Interpretation of Report:

The summary score provided for Grain Zoomer is a unified score calculated from the IgA and IgG reactivity of the individual to the respective antigens with higher weightage for IgA than IgG. Weightage is also assigned to the antigens based on their importance and abundance in the specific food that is tested. 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, and IgA antibody titers. Reference ranges have been established for 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) 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 Grain 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 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. Pediatric reference ranges have not been established for this test.

Grain Zoomer - Summary

Grain Zoomer

Grain Score	Current	Previous	Result	Reference
Quinoa Score	4.5		0 2 4	≤2.0
Rice Score	3.7		0 2 4	≤2.0
Sorghum Score	1.3		0 2 4	≤2.0
Teff Score	1.2		0 2 4	≤2.0
Oats Score	1.0		0 2 4	≤2.0
Barley Score	1.3		0 2 4	≤2.0
Rye Score	1.0		0 2 4	≤2.0
Buckwheat Score	1.1		0 2 4	≤2.0

Quinoa		Current	Previous	Result	Reference
Albumin	IgG	5.8		0 2 4	≤2.0

Albumin is a major seed storage protein of quinoa. The predominance of albumins in quinoa is technologically significant because they are highly soluble in water and dilute salt solutions, which can be an advantage for food formulation purposes, in particular for the production of plant-based beverages.[4]

Legumin like proteins	IgA	5.8		0 2 4	≤2.0
	IgG	4.6		0 2 4	≤2.0

Legumin, or vegetable casein, is a protein substance analogous to the casein of milk, obtained from quinoa seeds. Legumin-like 11S globulins are a storage protein of quinoa.[5]

Prolamin	IgG	2.5		0 2 4	≤2.0

Prolamins are plant proteins that have a high proline content which makes them difficult to fully digest. Quinoa contains prolamins that were, in some strains, able to stimulate the immune system in biopsied tissue from celiac disease (CD) patients.[1] Gliadin, a prolamin of gluten, is found in wheat and can induce celiac disease. It has been suggested that the quinoa prolamins could cause duodenal mucosal lesions in some patients with celiac disease, but this requires further investigation. This is similar to the presence of gliadin-stimulated T cell responses in celiac disease patients and supports the evidence that the adaptive immune response to gliadin is directly responsible for the inflammatory mucosal lesion.

Grain Zoomer - Summary

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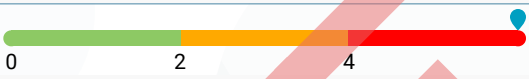
Rice		Current	Previous	Result	Reference
Glutelin	IgG	4.2			≤2.0

Glutelins are the primary form (80-90%) of energy storage in the endosperm of rice grains. Glutelin C precursor, which is a major glutelin subunit in the Asian japonica rice subspecies, has been identified as a new potential rice antigen.[20]

Rice		Current	Previous	Result	Reference
Alpha globulin	IgG	6.0			≤2.0

Globulin is a NaCl-soluble protein fraction in the seed. Together with albumin, it accounts for 4-10% of the total rice seed proteins. Alpha globulin (26 kDa, α-Glb) in the embryonic bud of rice has been proven to be one of the major rice antigens. The allergenicity of rice alpha globulin can survive heat and enzymatic treatment.[22]

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		Current	Previous	Result	Reference
Quinoa					
Prolamin	IgA	0.6		0 2 4	≤2.0
	IgG	2.5		0 2 4	≤2.0
Saponin	IgA	1.0		0 2 4	≤2.0
	IgG	1.0		0 2 4	≤2.0
Globulin	IgA	1.4		0 2 4	≤2.0
	IgG	0.6		0 2 4	≤2.0
Albumin	IgA	0.8		0 2 4	≤2.0
	IgG	5.8		0 2 4	≤2.0
Legumin like proteins	IgA	5.8		0 2 4	≤2.0
	IgG	4.6		0 2 4	≤2.0
Sorghum					
Kafirin	IgA	1.6		0 2 4	≤2.0
	IgG	0.8		0 2 4	≤2.0
Albumin	IgA	1.1		0 2 4	≤2.0
	IgG	1.3		0 2 4	≤2.0
Globulins	IgA	0.6		0 2 4	≤2.0
	IgG	1.8		0 2 4	≤2.0
Glutelins	IgA	1.8		0 2 4	≤2.0
	IgG	1.2		0 2 4	≤2.0
Teff					
Prolamin	IgA	0.9		0 2 4	≤2.0
	IgG	1.0		0 2 4	≤2.0

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Teff		Current	Previous	Result	Reference
Albumin	IgA	0.6		0 2 4	≤2.0
	IgG	1.3		0 2 4	≤2.0
Globulin	IgA	1.3		0 2 4	≤2.0
	IgG	1.6		0 2 4	≤2.0
Glutelin	IgA	1.8		0 2 4	≤2.0
	IgG	1.4		0 2 4	≤2.0

Oats		Current	Previous	Result	Reference
Avenin	IgA	1.5		0 2 4	≤2.0
	IgG	0.9		0 2 4	≤2.0
Avenalin	IgA	0.6		0 2 4	≤2.0
	IgG	0.7		0 2 4	≤2.0

Rice		Current	Previous	Result	Reference
Glutelin	IgA	0.9		0 2 4	≤2.0
	IgG	4.2		0 2 4	≤2.0
Prolamin	IgA	0.8		0 2 4	≤2.0
	IgG	0.9		0 2 4	≤2.0
Alpha globulin	IgA	1.0		0 2 4	≤2.0
	IgG	6.0		0 2 4	≤2.0
Albumin	IgA	1.8		0 2 4	≤2.0
	IgG	1.3		0 2 4	≤2.0
Lipid transfer protein (LTP)	IgA	0.9		0 2 4	≤2.0
	IgG	0.8		0 2 4	≤2.0

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Barley		Current	Previous	Result	Reference
C hordein	IgA	1.6		0 2 4	≤2.0
	IgG	1.9		0 2 4	≤2.0
C hordein - ω-gliadin overlap	IgA	1.9		0 2 4	≤2.0
	IgG	1.1		0 2 4	≤2.0
Gamma hordein	IgA	0.7		0 2 4	≤2.0
	IgG	0.6		0 2 4	≤2.0
D hordein	IgA	1.3		0 2 4	≤2.0
	IgG	1.5		0 2 4	≤2.0
B hordein	IgA	1.5		0 2 4	≤2.0
	IgG	0.8		0 2 4	≤2.0

Rye		Current	Previous	Result	Reference
Omega secalin	IgA	0.5		0 2 4	≤2.0
	IgG	0.6		0 2 4	≤2.0
Secalin Gliadin Overlap	IgA	1.1		0 2 4	≤2.0
	IgG	1.0		0 2 4	≤2.0
HMW Secalin	IgA	0.9		0 2 4	≤2.0
	IgG	1.3		0 2 4	≤2.0
Gamma secalin	IgA	1.4		0 2 4	≤2.0
	IgG	0.9		0 2 4	≤2.0

Buckwheat		Current	Previous	Result	Reference
2s Albumin	IgA	1.1		0 2 4	≤2.0
	IgG	0.8		0 2 4	≤2.0

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Buckwheat		Current	Previous	Result	Reference
13s Globulin	IgA	1.7		0 2 4	≤2.0
	IgG	1.4		0 2 4	≤2.0
BWp16 Epitope	IgA	1.5		0 2 4	≤2.0
	IgG	0.6		0 2 4	≤2.0
Peanut-Buckwheat Overlap	IgA	0.9		0 2 4	≤2.0
	IgG	1.1		0 2 4	≤2.0
BW10KD	IgA	0.9		0 2 4	≤2.0
	IgG	0.5		0 2 4	≤2.0
Fag e 1	IgA	1.0		0 2 4	≤2.0
	IgG	1.5		0 2 4	≤2.0
Vicilin-like protein	IgA	0.9		0 2 4	≤2.0
	IgG	1.2		0 2 4	≤2.0
Expansin	IgA	0.6		0 2 4	≤2.0
	IgG	0.8		0 2 4	≤2.0
TBb	IgA	1.8		0 2 4	≤2.0
	IgG	0.6		0 2 4	≤2.0

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.

Quantification of specific IgG, IgA antibodies is not an FDA- recognized diagnostic indicator of allergy.

Grain 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.