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Patient: Sample, Sally (1/27/64)

Provider: Jane Doe, MD

Gluten Intolerance Test

<u>Sample Collected</u>	<u>Sample Received</u>	<u>Sample Tested</u>	<u>Test Reported</u>
01/13/2025	01/15/2025	01/16/2025	01/20/2025

Sample type: **Super Floss – Full Mouth**

Test performed by: L. Douglas
Test ID: 58491

Results:

HLA-DQB1*02	HLA-DQA1*0501	HLA-DQB1*0302 Exon2	HLA-DQB1*0302 Exon3
Present	Absent	Absent	Present

Test Information

This test is designed to detect four genes within buccal (cheek) cells that are collected in saliva. The genes are: HLA-DQB1*02; HLA-DQA1*0501; HLA-DQB1*0302 Exon2; and HLA-DQB1*0302 Exon3. HLA stands for a “Human Leukocyte Antigen”. A leukocyte is the name for a White Blood Cell (WBC). An antigen is a substance that causes the human immune system to react. Human Leukocyte Antigen (HLA) is a substance that is located on the surface of white blood cells. This substance plays an important role in the body's immune response.

The presence of any of the HLA genes in your sample indicates a marked sensitivity to gluten, but does not mean you have a gluten intolerance; nor is it a confirmation or diagnosis of Celiac Disease. The presence of all four HLA genetic markers is indicative of gluten intolerance and highly suggestive of Celiac Disease.

Interpretation of Results Disclaimer: DNA Connexions is not a clinical diagnostic laboratory and cannot provide a diagnosis for disease and/or subsequent treatment. These results are from DNA PCR testing, and indicate the presence of targeted human DNA to predict the relative genetic susceptibility to gluten intolerance and/or Celiac Disease. The verbiage is supplied as a courtesy to health care providers to aide in an overall assessment. This information alone should not be used to diagnose or treat a health problem or disease. All reported results are intended for research purposes only and consultation with a qualified health care provider is required.

General Information

Gluten-sensitive enteropathy is an inflammatory disease of the small intestine that is precipitated by the ingestion of gluten in genetically susceptible persons. Gluten sensitivity, including gluten intolerance, is a spectrum of disorders including Celiac Disease, in which gluten has an adverse effect on the body. Gluten is a compound protein that is found in foods processed from wheat and related grain species, including barley and rye. The National Institutes of Health (NIH) reported in 2012 that approximately 1 in 133 people in the nation have a hypersensitivity to gluten¹; many of these people are completely intolerant to gluten, while others have been diagnosed with Celiac Disease.

Gluten intolerance and Celiac Disease are autoimmune disorders that cause the body's immune system to produce antibodies that target gluten once it enters the blood during the human body's digestive processes. Symptoms include bloating, flatulence, abdominal pain and discomfort, diarrhea, muscular disturbances, headaches and bone and joint pain. Exclusion of dietary gluten often results in healing of the mucosa, resolution of the malabsorptive state, and reversal of most, if not all, effects of inflammation caused by gluten ingestion.

REFERENCES

¹Clin Gastroenterol Hepatol. 2007 Jul; 5(7):844-50; quiz 769. Epub 2007 Jun 5.

²Lancet Neurol. 2010 Mar; 9(3):318-30. doi: 10.1016/S1474-4422(09)70290-X.

³Mooney, P. D., Aziz, I. and Sanders, D. S. (2013), Non-celiac gluten sensitivity: clinical relevance and recommendations for future research. Neurogastroenterology & Motility, 25: 864–871. doi: 10.1111/nmo.12216

⁴J Neurol Neurosurg Psychiatry 2006; 77:11 1262-1266 Published Online First: 11 July 2006 doi:10.1136/jnnp.2006.093534

⁵Rodrigo L., Celiac Disease. World Journal of Gastroenterology. 2006; 12(41):6585–6593.