

NEW TEST TEST CHANGE

NOTIFICATION DATE: 05/22/2024

EFFECTIVE DATE: 06/11/2024

Deamidated Gliadin Peptide Antibody, IgA and IgG (GLIADII)

On the effective date, Northwell Health Laboratories will implement a change in the assay methodology used for the Deamidated Gliadin Peptide Antibody (anti-DGP), IgA and IgG test to improve turnaround time, as part of our commitment to providing best-in-class clinical diagnostic testing services. The current enzyme-linked immunosorbent assay (QUANTA Lite Gliadin IgA and IgG ELISA) will be replaced with a multiplex flow immunoassay (BioPlex 2200 Celiac IgA and IgG).

Measurement of deamidated gliadin peptide IgG and IgA antibodies can aid in evaluating suspected cases of celiac disease, particularly in patients who test negative for tissue transglutaminase antibodies. However, isolated elevation in deamidated gliadin peptide antibodies has a low diagnostic yield for identifying cases of celiac disease due to a low positive predictive value. [1, 2]

An in-house method comparison study conducted at Northwell Health Laboratories demonstrated acceptable qualitative clinical concordance between the two assays. ***However, it is important to note that due to differences in immunoassay design and antibody epitope recognition, direct comparison of semi-quantitative values between the two assays is not feasible, as highlighted in the table below.***

Test Requirement/ Parameters	New Gliadin Deamidated Peptide Antibody, IgA and IgG	Current Gliadin Deamidated Peptide Antibody, IgA and IgG
Methodology	Multiplexed flow immunoassay	Enzyme-linked immunosorbent assay
Assay Manufacturer	Bio-Rad Laboratories	Inova Diagnostics (WERFEN)
Result Interpretation	< 15 U/mL: Negative ≥ 15 U/mL: Positive	< 20 Units: Negative 20 – 30 Units: Weak Positive >30 Units: Positive
Computer Interface Code	PDM #5700331	PDM #5700331
Test Order	GLIADII	GLIADII

If you have any questions, please contact Client Services at (800) 472-5757.

References:

1. A Rubio-Tapia et al. American College of Gastroenterology Guidelines Update: Diagnosis and Management of Celiac Disease. *The American Journal of Gastroenterology* 118(1): p 59-76, January 2023. | DOI: 10.14309/ajg.0000000000002075
2. N.A. Hoerter et al. Diagnostic Yield of Isolated Deamidated Gliadin Peptide Antibody Elevation for Celiac Disease. *Dig Dis Sci* 62, 1272–1276 (2017). <https://doi.org/10.1007/s10620-017-4474-5>