

BioPlex® 2200 Celiac IgA and IgG Kits

The first and only fully automated, random access, multiplex solution for Celiac IgA and Celiac IgG autoantibody testing.

The BioPlex® 2200 System is designed to handle increasing testing volumes while streamlining workflow.





Like no other

The Celiac IgA and IgG kits are multiplex flow immunoassays for the semi-quantitative detection of IgA and IgG autoantibodies to tissue Transglutaminase (tTG) and deamidated gliadin peptide (DGP). These tests are used as an aid in the diagnosis of Celiac Disease (glutensensitive enteropathy).

Celiac Disease is an autoimmune disorder characterized by glutensensitivity. The prevalence of the disease is increasing worldwide in both children and adults. This condition may present with classic symptoms such as failure to thrive, short stature and gastrointestinal disorders or more non-specific symptoms such as anemia and chronic fatigue. Some patients with Celiac Disease may even be asymptomatic.

BioPlex® 2200 Celiac IgA kit contains:

- Anti-tTG lgA
- Anti-DGP IgA
- IgA Verification Bead

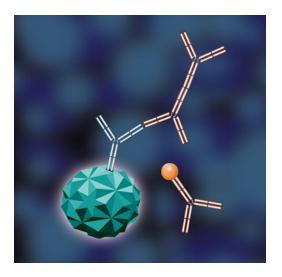
BioPlex® 2200 Celiac IgG kit contains:

- Anti-tTG lgG
- Anti-DGP IgG

Early diagnosis and adherence to a gluten-free diet are critical in relieving symptoms and reducing the risk of complications including secondary autoimmune disorders and lymphoma. An accurate and timely diagnosis is imperative to improving patient outcomes.

The BioPlex® 2200 Celiac IgA and IgG kits incorporate unique bead technology, like no other, for efficient laboratory workflow, excellent clinical performance, high throughput and timely reporting of results.

Unique IgA Verification Bead Ensures Confidence in Patient Results



The AVB identifies patient samples with low IgA levels.

The Celiac IgA kit includes a novel IgA Verification Bead (AVB) to detect low levels of IgA that may require additional testing. This condition is more prevalent in Celiac Disease patients than in the general population. It is important to recognize this condition in the diagnostic workup, because many antibody tests used to diagnose Celiac Disease detect autoantibodies of the IgA isotype.

The flag is based on the actual measurement of Total IgA. This is in contrast to the estimation of the IgA level using the anti-tTG IgA signal as is sometimes done with traditional Celiac immunoassays.

- AVB identifies the 2-5% of Celiac patients with low IgA levels, so Celiac IgG autoantibodies may be assayed
- This reduces false-negative results compared to traditional immunoassays for a comprehensive diagnostic workup

Improved Lab Workflow

Faster turnaround time

- Time to first result is approximately 45 minutes
- 100 samples per hour or 200 test results per hour for anti-tTG & anti-DGP IgA or IgG
- Eliminate batching and reduce turnaround time
- The BioPlex® 2200 System demonstrates the highest throughput in the market for Celiac testing

Simplify workflow

- With the AVB, it may no longer be necessary to order a Total IgA test before running Celiac Disease serological tests for IgA autoantibodies
- Two small 5 µL samples for four analytes significantly reduces sample volume requirements and tube handling
- Unlike traditional EIA kits, the Celiac IgA and Celiac IgG kits employ a 30-day calibration curve eliminating the cost of daily calibration

Market Leading Performance

Clinically relevant results

- Measures anti-tTG autoantibodies to greater than ten times the cutoff as recommended by current clinical guidelines
- Detects autoantibodies to deamidated gliadin peptide offering increased sensitivity and specificity over native gliadin assays
- Provides an optimal method for evaluating levels of multiple antibodies

Better accuracy and precision

- Full automation ensures excellent assay performance
 - Minimizes errors associated with specimen and reagent handling
- · Heterogeneous assay format with magnetic beads
 - Limits interferences and reduces non-specific binding to improve specificity
- Excellent reproducibility with total precision at <10% CV for all analytes

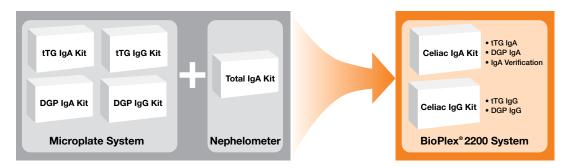
Quality assurance in every test

- · Internal quality beads ensure optimal system performance and result integrity
 - Serum Verification Bead (SVB)—confirms the presence of serum
 - Internal Standard Bead (ISB) standardizes detector performance
 - IgA Verification Bead (AVB)—flags samples with low IgA levels

Consolidate Testing Platforms and Reagent Kits

Traditional Celiac serology testing requires multiple platforms such as a microplate system for anti-tTG and anti-DGP as well as a nephelometer for total IgA levels. Sample aliquoting, batching and coordination between multiple instruments slows reporting of results. The BioPlex® 2200 System offers streamlined results reporting.

- · Minimize sample aliquoting optimizing lean workflow
- · Report out negative results faster for improved client satisfaction
- Streamline reagent kit storage and purchasing activities for improved laboratory efficiency



The BioPlex® 2200 System simplifies your Celiac testing



Excellent Clinical Sensitivity and Specificity

The BioPlex® 2200 Celiac IgA and IgG kits show high clinical sensitivity and specificity using clinically diagnosed, biopsy-positive samples.

Clinical performance of the BioPlex® 2200 Celiac IgA and IgG kits was evaluated in samples from patients previously diagnosed with Celiac Disease (N=156) and samples from patients with other autoimmune, infectious and gastrointestinal disease (N=163).

- The BioPlex® 2200 System provides accurate results for Celiac biomarkers
- High specificity ensures excellent agreement with biopsy results

BioPlex® 2200 Celiac IgA Kit - Clinical Sensitivity and Specificity (N=319)

Retrospective Samples	BioPlex [®] 2200 Celiac IgA								
	Anti-tTG IgA				Anti-DGP IgA				
	Pos (+)	Neg (-)	Sensitivity	Specificity	Pos (+)	Neg (-)	Sensitivity	Specificity	
Celiac Disease Patients	148	8	94.9%	98.8%	136	20	- 87.2%	96.9%	
Non-Celiac Disease Patients	2	160			5	158			

BioPlex® 2200 Celiac IgG Kit - Clinical Sensitivity and Specificity (N=319)

Retrospective Samples	BioPlex [®] 2200 Celiac IgG								
	Anti-tTG IgG				Anti-DGP IgG				
	Pos (+)	Neg (-)	Sensitivity	Specificity	Pos (+)	Neg (-)	Sensitivity	Specificity	
Celiac Disease Patients	69	87	44.2%	95.7%	132	24	84.6%	96.9%	
Non-Celiac Disease Patients	7	155			5	158			

BioPlex® 2200 Celiac IgA and IgG Kits

The BioPlex®2200 Celiac IgA and IgG kits consolidate four traditional single-analyte tests into two disease state panels for lean laboratory workflow. The Calibrator and Control sets offer ease of use and cost savings with 60-day open vial stability and 30-day calibration curve stability.



Celiac IgA and IgG Reagent Packs

Each reagent pack contains all the necessary reagents (sample diluent, beads and conjugate) to process 100 samples and up to 2 results per sample.



Celiac IgA and IgG Calibrator Sets

Calibrators are ready to use. A 4PL curve fit, using nine calibrators (5 vials for anti-tTG and 5 vials for anti-DGP), is used to calculate semi-quantitative results.



Celiac IgA and IgG Control Sets

Quality Controls are ready to use. Each bi-level set includes a negative control as well as a positive control for anti-tTG and anti-DGP.

Ordering Information

Catalog No.	Description	
665-2350	BioPlex® 2200 Celiac IgA Reagent Kit	1 pack
663-2300	BioPlex® 2200 Celiac IgA Calibrator Set	1 set
663-2330	BioPlex® 2200 Celiac IgA Control Set	1 set
665-2250	BioPlex® 2200 Celiac IgG Reagent Kit	1 pack
663-2200	BioPlex® 2200 Celiac IgG Calibrator Set	1 set
663-2230	BioPlex® 2200 Celiac laG Control Set	1 set



Bio-Rad Laboratories For further information, please contact the Bio-Rad office nearest you or visit our website at www.bio-rad.com/diagnostics

Clinical Diagnostics Group Website www.bio-rad.com/diagnostics U.S. 1-800-224-6723 Australia 61-2-9914-2800 Austria 43-1-877-8901 Belgium 32-9-385-5511 Brazil +55 (31)3689-6600 Canada 1-514-334-4372 China 86-21-61698500 Czech Republic 420-224-430-532 Denmark +45-4452-1000 Finland 358-9-804-22-00 France 33-1-47-95-60-00 Germany +49 (0)89-318-840 Greece 30-210-7774396 Hong Kong 852-2789-3300 Hungary 4-45-4456-1405 India 1800-180-1224 Israel 972-3-9365050 Italy +39-02-216091 Japan 81-3-6361-7070 Korea 82-2-3473-4460 Mexico +52 (55)5488-7670 The Netherlands +31-318-540666 New Zealand 64-9-415-2280 Norway +47-23-38-41-30 Poland 48-2-3319999 Portugal 351-21-472-7700 Russia 7-495-721-14-04 Singapore 65-6415-3170 South Africa 27-11-442-85-08 Spain 34-91-590-5200 Sweden +46-8-555-127-00 Switzerland +41 (0)26-674-55-05/06 Taiwan 886-2-2578-7189 Thailand 662-651-8311 United Kingdom +44 (0)20-8328-2000