



### AccuDiag™ Gliadin IgA ELISA Kit

REF 1022-2

IVD See External Label 2°C 96 Tests

Gliadin IgA ELISA	
Principle	Indirect ELISA
Detection	Qualitative/ Semi-Quantitative
Sample	10 µL serum/plasma
Incubation Time	60 minutes
Sensitivity	93.9%
Specificity	96.2%
Shelf Life	12 Months from the manufacturing date

#### PRODUCT FEATURES

- Very easy to use with little training
- Highly specific and consistent assay
- Provides accurate results quickly
- Reading of results both visually and as absorbance data

#### INTENDED USE

The Diagnostic Automation, Inc. Gliadin IgA Test System is intended for the qualitative and semi-quantitative detection of IgA-class antibodies to Gliadin in human serum. The Test System is intended to be used as an aid in the diagnosis of gastrointestinal disorders, mainly Celiac Disease. This test is for In Vitro diagnostic use.

#### SIGNIFICANCE AND SUMMARY

Celiac disease is an inflammatory disorder of the small intestine. The prolamines of certain cereals, mainly the gliadins of wheat, induced Celiac disease. This permanent intolerance to Gliadin results in intestinal villous flattening and crypt hyperplasia in susceptible individuals. Immune reactions to Gliadin are likely to play a role in the pathogenesis of the disease since research demonstrates that both humoral and cell-mediated responses occur in the peripheral blood and in the gut of celiac patients.

Classic signs of celiac disease in adults include, mal-absorption characterized by weight loss, abdominal distension, diarrhea, and steatorrhea (which occurs because of the loss of absorptive area and the immaturity of surface epithelial cells). By the early 1980s, the clinical features of celiac disease had changed. A shift towards milder symptoms, such as indigestion in adults and recurrent abdominal pain in children, occurred and made the classic symptoms and signs of celiac a rarity. Despite the manifestation of mucosal lesions, the disease can even be symptom-free and clinically silent. It has become evident that the disease exists or appears late in children, even though classical forms with mal-absorption are not apparent.

#### ASSAY PRINCIPLE

The Diagnostic Automation Inc. Gliadin IgA ELISA test system is designed to detect IgA class antibodies to Gliadin in human sera. Wells of plastic microwell strips are sensitized by passive adsorption with Gliadin antigen. The test procedure involves three incubation steps:

1. Test sera (properly diluted) are incubated in antigen coated microwells. Any antigen specific antibody in the sample will bind to the immobilized antigen. The plate is washed to remove unbound antibody and other serum components.
2. Peroxidase Conjugated goat anti-human IgA is added to the wells and the plate is incubated. The Conjugate will react with Gliadin antigen immobilized on the solid phase in step 1. The wells are washed to remove unreacted Conjugate.
3. The microwells containing immobilized peroxidase Conjugate are incubated with peroxidase Substrate Solution. Hydrolysis of the Substrate by peroxidase produces a color change. After a period of time the reaction is stopped and the color intensity of the solution is measured photometrically. The color intensity of the solution depends upon the antibody concentration in the original test sample.

#### SPECIMEN COLLECTION & PREPARATION

1. It is recommended that specimen collection be carried out in accordance with CLSI document M29: Protection of Laboratory Workers from Infectious Disease.
2. No known test method can offer complete assurance that human blood samples will not transmit infection. Therefore, all blood derivatives should be considered potentially infectious.
3. Only freshly drawn and properly refrigerated sera obtained by approved aseptic venipuncture procedures should be used in this assay. No anticoagulants or preservatives should be added. Avoid using hemolyzed, lipemic, or bacterially contaminated sera.
4. Store sample at room temperature for no longer than 8 hours. If testing is not performed within 8 hours, sera may be stored between 2-8°C for no longer than 48 hours. If delay in testing is anticipated, store test sera at -20°C or lower. Avoid multiple freeze/thaw cycles that may cause loss of antibody activity and give erroneous results.

#### MATERIALS AND COMPONENTS

Each Test System contains the following components in sufficient quantities to perform the number of tests indicated on packaging label. **NOTE: The following components contain Sodium Azide as a preservative at a concentration of < 0.1% w/v) Controls, Calibrators and Sample Diluent.**

##### Materials provided with the test kit

1. **Plate:** 96 wells configured in twelve, 1x 8-well, strips coated with inactivated antigen. The strips are packaged in a strip holder and sealed in an envelope with desiccant.
2. **Conjugate:** Conjugated (horseradish peroxidase) goat anti-human IgA One, 15 mL, white-capped bottle. Ready to use.



3. **Positive Control (Human Serum):** One, 0.35 mL, red-capped, vial.
4. **Calibrator (Human Serum):** One, 0.5mL, blue-capped vial.
5. **Negative Control (Human Serum):** One, 0.35mL, green-capped vial.
6. **Sample Diluent:** One, 30mL, green-capped, bottle containing Tween-20, bovine serum albumin and phosphate-buffered-saline, (pH 7.2 ± 0.2). Ready to use. Note: The Sample Diluent will change color when combined with serum.
7. **TMB:** One, 15 mL, amber-capped, amber bottle containing 3, 3', 5, 5' - tetramethylbenzidine (TMB). Ready to use.
8. **Stop Solution:** One, 15 mL, red-capped, bottle containing 1M H<sub>2</sub>SO<sub>4</sub>, 0.7M HCl. Ready to use.
9. **Wash Buffer Concentrate (10X):** Dilute 1 part concentrate + 9 parts deionized or distilled water. One, 100mL, clear-capped, bottle containing a 10X concentrated phosphate-buffered -saline and Tween-20 solution (Blue solution). **Note: 1X solution will have a pH of 7.2 ± 0.2.**

### Note: Kit also contains:

1. Component list containing lot specific information is inside the kit box.
2. Package insert providing instructions for use.

### Materials required but not provided

1. ELISA microwell reader capable of reading at a wavelength of 450nm.
2. Pipettes capable of accurately delivering 10 to 200µL.
3. Multichannel pipette capable of accurately delivering (50-200µL)
4. Reagent reservoirs for multichannel pipettes.
5. Wash bottle or microwell washing system.
6. Distilled or deionized water.
7. One liter graduated cylinder.
8. Serological pipettes.
9. Disposable pipette tips.
10. Paper towels.
11. Laboratory timer to monitor incubation steps.
12. Disposal basin and disinfectant. (Example: 10% household bleach, 0.5% sodium hypochlorite.)

## ASSAY PROCEDURE

- 1.
2. Remove the individual component from storage and allow them to warm to room temperature (20-25°C).
3. Determine the number of microwells needed. Allow six Control/Calibrator determinations (one Reagent Blank, one Negative Control, three Calibrators and one Positive Control) per run. Run a Reagent Blank on each assay. Check software and reader requirements for the correct Controls/Calibrator configurations. Return unused strips to the resealable pouch with desiccant, seal, and return to storage between 2° and 8°C.

EXAMPLE PLATE SET-UP

	1	2
A	Blank	Patient 3
B	Neg. Control	Patient 4
C	Calibrator	Etc.
D	Calibrator	
E	Calibrator	
F	Pos. Control	
G	Patient 1	
H	Patient 2	

4. Prepare a 1:21 dilution (e.g.: 10µL of serum + 200µL of Sample Diluent of the Negative Control, Calibrator, Positive Control, and each patient serum. The sample diluent will undergo a color change confirming that the specimen has been combined with the diluent.

5. To individual wells, add 100µL of each diluted control, calibrator and patient specimen. Ensure that the samples are properly mixed. Use a different pipette tip for each sample.
6. Add 100µL of Sample Diluent to well A1 as a reagent blank. Check software and reader requirements for the correct reagent blank well configuration.
7. Incubate the plate at room temperature (20-25°C) for 25 ± 5 minutes.
8. Wash the microwell strips 5 times.
  - a. **Manual Wash Procedure:**
    1. Vigorously shake out the liquid from the wells.
    2. Fill each microwell with Wash Buffer. Make sure no air bubbles are trapped in the wells.
    3. Repeat steps a. and b. for a total of 5 washes.
    4. Shake out the wash solution from all the wells. Invert the plate over a paper towel and tap firmly to remove any residual wash solution from the wells. Visually inspect the plate to ensure that no residual wash solution remains. Collect wash solution in a disposable basin and treat with disinfectant at the end of the day's run.
  - b. **Automated Wash Procedure:**

If using an automated microwell wash system, set the dispensing volume to 300-350µL/well. Set the wash cycle for 5 washes with no delay between washes. If necessary, the microwell plate may be removed from the washer, inverted over a paper towel and tapped firmly to remove any residual wash solution from the microwells.
9. Add 100µL of the Conjugate to each well, including reagent blank well, at the same rate and in the same order as the specimens.
10. Incubate the plate at room temperature (20-25°C) for 25 ± 5 minutes
11. Wash the microwells by following the procedure as described in step 7.
11. Add 100µL of TMB to each well, including reagent blank well, at the same rate and in the same order as the specimens.
12. Incubate the plate at room temperature (20-25°C) for 10 to 15 minutes.
13. Stop the reaction by adding 50µL of Stop Solution to each well, including reagent blank well, at the same rate and in the same order as the TMB. Positive samples will turn from blue to yellow. After adding the Stop Solution, tap the plate several times to ensure that the samples are thoroughly mixed.
14. Set the microwell reader to read at a wavelength of 450nm and measure the optical density (OD) of each well against the reagent blank. The plate should be read within 30 minutes after the addition of the Stop Solution.

### ABBREVIATED TEST PROCEDURE

1. Dilute Serum 1:21.
2. Add diluted sample to microwell – 100µL/well.
3. → Incubate 25 ± 5 minutes.
4. Wash.
5. Add Conjugate – 100µL/well.
6. → Incubate 25 ± 5 minutes.
7. Wash.
8. Add TMB – 100µL/well.
9. → Incubate 10 - 15 minutes.
10. Add Stop Solution – 50µl/well – Mix.
11. READ within 30 minutes.

## RESULTS

The Calibrator within this Test System has been assigned both a Correction Factor for the generation of Index Values and a Calibrator Value for the generation of Unit Values. Based upon testing of normal and disease-state specimens, a maximum normal Unit Value has been determined by the manufacturer and correlated to the Calibrator.

1. **Calculations:**
  - a. **Correction Factor:** The manufacturer determined a Cutoff OD Value for positive samples and correlated it to the Calibrator. The Correction Factor



(CF) allows for the determination of the Cutoff Value for positive samples. It will also correct for slight day-to-day variations in test results. The Correction Factor is determined for each lot of components and is printed on the Component Label located in the Test System box.

- b. **Cutoff OD Value:** To obtain the Cutoff OD Value, multiply the CF by the mean OD of the Calibrator determined above. (CF x Mean OD of Calibrator = Cutoff OD Value)
- c. **Index Values/OD Ratios:** Calculate the Index Value/OD Ratio for each specimen by dividing its OD Value by the Cutoff OD from step b.

Example:

Mean OD of Calibrator	=	0.793
Correction Factor (CF)	=	0.25
Cut off OD	=	0.793 x 0.25 = 0.198
Unknown Specimen OD	=	0.432
Specimen Index Value or OD Ratio	=	0.432 / 0.198 = 2.18

- d. **Conversion of Optical Density to Autoantibody Units (AAU)/mL:** The conversion of OD to Unit Value (AAU/mL) can be represented by the following equation: Test Specimen AAU/mL = (A x B)/C, Where: AAU/mL = Unknown Unit Value to be determined; A = OD of the test specimen in question; B = Unit Value of the Positive Calibrator (AAU/mL) & C = The mean OD of the Calibrator.

Example:

Test Specimen OD = 0.946	Test Specimen AAU/mL = (0.946 x 155)/0.435
Calibrator OD = 0.435	Test Specimen = 337 AAU/mL
Calibrator Unit Value = 155 AAU/mL	

### 2. Interpretations:

Index Values or OD ratios are interpreted as follows:

	Unit Values	Index Value or OD Ratio
Negative Specimens	<150 AAU/mL	≤ 0.90
Equivocal Specimens	150 to 180 AAU/mL	0.91 to 1.09
Positive Specimens	>180 AAU/mL	≥ 1.10

Retest specimens with OD Ratio Values in the equivocal range (0.91 – 1.09) in duplicate. Report any two of the three results which agree. Evaluate repeatedly equivocal specimens using an alternate serological method and/or re-evaluate by drawing another sample one to three weeks later.

## QUALITY CONTROL

1. Each time the assay is run the Calibrator must be run in triplicate. A reagent blank, Negative Control, and Positive Control must also be included in each assay.
2. Calculate the mean of the three Calibrator wells. If any of the three values differ by more than 15% from the mean, discard that value and calculate the mean using the remaining two wells.
3. The mean OD value for the Calibrator and the OD values for the Positive and Negative Controls should fall within the following ranges:

	OD Ratio
Negative Control	≤0.250
Calibrator	≥0.300
Positive Calibrator	≥0.500

- a. The OD of the Negative Control divided by the mean OD of the Calibrator should be ≤ 0.9.

- b. The OD of the Positive Control divided by the mean OD of the Calibrator should be ≥ 1.25.
- c. If the above conditions are not met the test should be considered invalid and should be repeated.

4. The Positive Control and Negative Control are intended to monitor for substantial reagent failure and will not ensure precision at the assay cut-off.
5. Additional controls may be tested according to guidelines or requirements of local, state, and/or federal regulations or accrediting organizations.
6. Refer to CLSI document C24: Statistical Quality Control for Quantitative Measurements Procedures for guidance on appropriate QC practices.

## PERFORMANCE CHARACTERISTICS

### 1. Comparative Study

An in-house comparative study was conducted to demonstrate the equivalence of the DAI ELISA Gliadin IgA Test System to another commercially available ELISA Gliadin IgA Test System. Performance was evaluated using 305 specimens and the results are summarized below:

Commercial ELISA Test System	DAI ELISA Gliadin IgA Test System				Totals
	-	± **	+		
	-	175	2	7	
± **	8	2	9	19	
+	6	4	92	102	
Totals	189	8	108	305	

Relative Sensitivity = 92/98 = 93.9%      95% Confidence Interval = 89% to 99%  
 Relative Specificity = 175/182 = 96.2%      95% Confidence Interval = 93% to 99%  
 Relative Agreement = 267/280 = 95.4%      95% Confidence Interval = 93% to 98%

### 2. Reproducibility

Technicians tested eight specimens in-house, to determine intra-assay and inter-assay variation: two strong positive specimens, two specimens near the cut off zone, two low negative specimens and the kit's positive and negative controls. On each of three days, a technician tested each specimen once a day, eight times each, resulting in 24 test points. A responsible party then calculated the mean OD ratio and coefficient of variation from the resulting data. Depiction of the results of the experiment is below:

#### Kit One

Sample (N)	Intra-Assay (n=8)						Inter-Assay/ (n=24)	
	Day # 1		Day # 2		Day # 3		Mean AAU/mL	CV
	Mean AAU/mL	CV	Mean AAU/mL	CV	Mean AAU/mL	CV		
Sample 1	8	32.4%	11	17.8%	7	15.8%	9	29.1%
Sample 2	81	5.0%	99	2.0%	87	4.3%	89	9.3%
Sample 3	160	4.6%	178	4.2%	168	2.8%	169	5.8%
Sample 4	178	9.0%	203	3.4%	182	8.1%	187	9.0
Sample 5	165	5.1%	171	3.6%	175	7.8%	170	6.1
Sample 6	269	7.8%	333	3.2%	318	5.1%	307	10.5
NC	11	18.7%	15	9.2%	11	11.2%	12	18.7
HPC	973	6.8%	1139	2.9%	1050	6.1%	1054	8.3

#### Kit Two

Sample (N)	Intra-Assay (n=8)						Inter-Assay/ (n=24)	
	Day # 1		Day # 2		Day # 3		Mean AAU/mL	CV
	Mean AAU/mL	CV	Mean AAU/mL	CV	Mean AAU/mL	CV		
Sample 1	5	30.2%	6	21.4%	7	20.6%	6	26.5%
Sample 2	81	6.1%	77	4.3%	83	5.4%	80	6.1%



Sample (N)	Day # 1		Day # 2		Day# 3		Inter-Assay/ (n=24)	
	Mean AAU/mL	CV	Mean AAU/mL	CV	Mean AAU/mL	CV	Mean AAU/mL	CV
Sample 3	153	3.1%	158	4.5%	159	7.0%	157	5.3%
Sample 4	179	6.3%	162	2.2%	177	3.9%	173	6.3%
Sample 5	174	10.0%	154	6.9%	171	6.4%	166	9.4%
Sample 6	321	4.4%	282	4.1%	304	3.3%	302	6.6%
NC	10	10.9%	11	28.8%	11	9.12%	11	17.8%
HPC	1175	8.6%	1185	8.4%	1089	5.4%	1150	8.3%

### 3. Cross Reactivity

To investigate the potential for positive reactions due to cross reactive antibodies, twenty-six specimens which were reactive for various auto antibodies (ANA, PR3, MPO, cardiolipin, dsDNA, ENA, Jo-1, RF, Scl-70, Sm, Sm/RNP, SSA and SSB) were tested on the Gliadin IgA Test System. All twenty-six (26/26) were negative for Gliadin IgA activity. The results of this study indicate that the potential for interference due to cross reactivity with such auto antibodies is unlikely.

### LIMITATIONS OF THE ASSAY

1. A diagnosis should not be made on the basis of DAI Gliadin IgA ELISA results alone. The results from the test for Gliadin should be interpreted in conjunction with the clinical evaluation and the results of other diagnostic procedure.
2. Crohn's disease and other food protein intolerance/gastrointestinal disorders may induce circulating antibodies to Gliadin and cause a false positive.
3. The clinical significance of any test result depends upon its relationship to other medical patient data. Doctors must base all disease diagnosis and management on an evaluation of all relevant patient information.
4. DAI did not establish values for the pediatric population with this assay.
5. A Gliadin IgA negative result in an untreated patient does not rule out gluten-sensitive enteropathy when associated with high levels of Gliadin IgG antibodies. Selective IgA deficiency is a relatively frequent finding in celiac disease.

### EXPECTED RANGES OF VALUES

Diagnostic Automation, Inc. tested 305 specimens to establish, or estimate, the expected reactivity rate with the assay. This represented two groups of specimens; 255 clinical specimens which were either sent to the lab for routine Gliadin serological analysis or were part of an external Gliadin study, and 50 random normal donor specimens. With respect to the clinical population, 107/255 (42.0%) were positive, 140/255 (54.9%) were negative, and 8/255 (3.1%) were equivocal. With respect to the normal population, 49/50 (98.0%) were negative, 1/50 (2.0%) was positive.

### PRECAUTIONS

1. For In Vitro Diagnostic Use
2. Follow normal precautions exercised in handling laboratory reagents. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. Do not breathe the vapor. Dispose of waste observing all local, state, and federal laws.
3. The wells of the Slide do not contain viable organisms. However, consider the Slide potentially bio-hazardous materials and handle accordingly.

4. The Controls are potentially bio-hazardous materials. Source materials from which these products were derived were found negative for HIV-1 antigen, HBsAg and for antibodies against HCV and HIV by approved test methods. However, since no test method can offer complete assurance that infectious agents are absent, these products should be handled at the Biosafety Level 2 as recommended for any potentially infectious human serum or blood specimen in the Centers for Disease Control/National Institutes of Health manual "Biosafety in Microbiological and Biomedical Laboratories": current edition; and OSHA's Standard for Bloodborne Pathogens.
5. Adherence to the specified time and temperature of incubations is essential for accurate results. **All reagents must be allowed to reach room temperature (20 - 25°C) before starting the assay.** Return unused reagents to refrigerated temperature immediately after use.
6. Improper washing could cause false positive or false negative results. Be sure to minimize the amount of any residual wash solution; (e.g., by blotting or aspiration) before adding Conjugate or Substrate. Do not allow the wells to dry out between incubations.
7. The Sample Diluent, Controls, Conjugate and Wash Buffer contain Sodium Azide at a concentration of < 0.1% (w/v). Sodium Azide has been reported to form lead or copper azides in laboratory plumbing which may cause explosions on hammering. To prevent, rinse sink thoroughly with water after disposing of solution containing Sodium Azide.
8. The Stop Solution is TOXIC if inhaled, has contact with skin or if swallowed. It can cause burns. In case of accident or ill feelings, seek medical advice immediately.
9. The TMB Solution is HARMFUL. It is irritating to eyes, respiratory system and skin.
10. The Wash Buffer concentrate is an IRRITANT. It is irritating to eyes, respiratory system and skin.
11. Wipe the bottom of the plate free of residual liquid and/or fingerprints that can alter optical density (OD) readings.
12. Dilution or adulteration of these reagents may generate erroneous results.
13. Do not use reagents from other sources or manufacturers.
14. TMB Solution should be colorless, very pale yellow, very pale green, or very pale blue when used. Contamination of the TMB with conjugate or other oxidants will cause the solution to change color prematurely. Do not use the TMB if it is noticeably blue in color.
15. Never pipette by mouth. Avoid contact of reagents and patient specimens with skin and mucous membranes.
16. Avoid microbial contamination of reagents. Incorrect results may occur.
17. Cross contamination of reagents and/or samples could cause erroneous results
18. Reusable glassware must be washed and thoroughly rinsed free of all detergents.
19. Avoid splashing or generation of aerosols.
20. Do not expose reagents to strong light during storage or incubation.
21. Allowing the microwell strips and holder to equilibrate to room temperature prior to opening the protective envelope will protect the wells from condensation.
22. Collect the wash solution in a disposal basin. Treat the waste solution with disinfectant (i.e.: 10% household bleach - 0.5% Sodium Hypochlorite). Avoid exposure of reagents to bleach fumes.
23. Caution: Liquid waste at acid pH should be neutralized before adding to bleach solution.
24. Do not use ELISA plate if the indicator strip on the desiccant pouch has turned from blue to pink.
25. Do not allow the conjugate to come in contact with containers or instruments that may have previously contained a solution utilizing sodium azide as a preservative. Residual amounts of sodium azide may destroy the conjugate's enzymatic activity.
26. Do not expose any of the reactive reagents to bleach-containing solutions or to any strong odors from bleach-containing solutions. Trace amounts of



bleach (sodium hypochlorite) may destroy the biological activity of many of the reactive reagents within this kit.

### STORAGE CONDITIONS

	Coated: Microwell Strips Immediately reseal extra strips with desiccant and return to proper storage. After opening – strips are stable for 60 days, as long as the indicator strips on the desiccant pouch remains blue.
	Conjugate – DO NOT FREEZE Unopened Test System, Calibrator, Positive Control, Negative Control, TMB, Sample Diluent
	Stop Solution: 2 - 25°C
	Wash Buffer (1X): 20-25°C for up to 7 days, 2-8°C for 30 days. Wash Buffer (10X): 2-25°C

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### MANUFACTURER AND BRAND DETAILS

<b>ISO 13485:2016</b>	
ISO 13485 Quality Management for Medical Devices CERTIFIED	
Diagnostic Automation/Cortez Diagnostics, Inc. 21250 Califa Street, Suite 102 and 116, Woodland Hills, California 91367 USA	
Date Adopted	2023-09
Brand Name	AccuDiag™
REF 1022-2	AccuDiag™ - Gliadin IgA ELISA
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