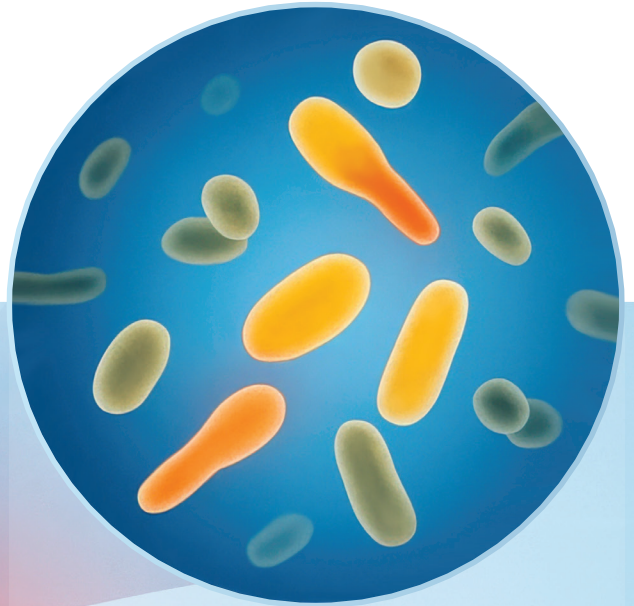


Celiac

Reliable First-Line Diagnosis

Celiac disease has many symptoms,

1 Test can diagnose it



Only Indian Company

To manufacture CELIAC detection kit for

RAPID & ELISA TESTS

In collaboration with
AJIMS-ICGEB-THSTI

Sponsored by
**The Department of Biotechnology,
Govt of India**

CELIAC CARD

Rapid visual and sensitive test for the qualitative detection of Celiac disease associated IgM, IgG & IgA antibodies in human serum/plasma

CELIAC MICROLISA

Microwell ELISA Test for the quantitative /semi-quantitative detection of Celiac disease associated IgA antibodies in human serum/plasma



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J. Mitra & Co. Pvt. Ltd.

.....a vision to serve mankind™

Celiac

An under diagnosed disease

Know about Celiac Disease

Celiac disease is an auto-immune digestive disease that damages the small intestine and interferes with absorption of nutrients from food. People with celiac disease can not tolerate gluten, a protein found in various cereals like Wheat, Rye & Barley.

If patient with celiac disease eat foods or use products containing gluten, their immune system responds by damaging or destroying villi- the tiny, fingerlike protrusions lining the small intestine as shown in fig. 1. Villi normally allow nutrients from food to be absorbed through the walls of the small intestine into the bloodstream. Without healthy villi, a person becomes malnourished, no matter how much food one eats. (refer fig. 2)

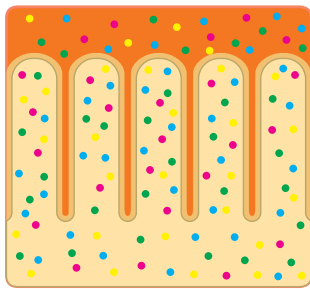


Fig. 1: A healthy person villi

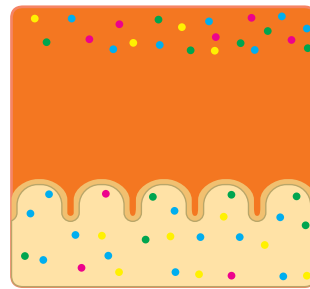


Fig. 2: Villi of a person with celiac disease

Health problems in Celiac Disease

People with celiac disease tend to have other diseases in which the immune system attacks the body's healthy cells and tissues. They include:

- Type 1 diabetes
- Autoimmune thyroid disease
- Autoimmune liver disease
- Rheumatoid arthritis
- Addison's disease, a condition in which the glands that produce critical hormones are damaged
- Sjögren's syndrome, a condition in which the glands that produce tears and saliva are destroyed



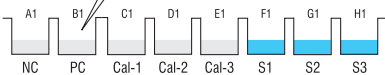
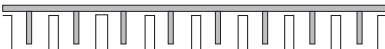
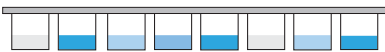
Diagnosis of Celiac Disease

Diagnosis of celiac disease is based on both, the characteristic changes seen in the small intestinal mucosa in the intestinal biopsy while on a gluten containing diet and, a full clinical remission following gluten free diet (GFD). The presence of serological antibodies, which disappear while on GFD, further confirms the diagnosis. IgG and the IgA anti-gliadin antibodies are no longer recommended for diagnostic or screening purposes because of its poor sensitivity and specificity. These assays have been replaced by more sensitive and specific anti endomysial (EMA) and anti tissue transglutaminase antibodies. With establishment of tissue transglutaminase as the main autoantigen for EMA, the ELISA developed for its identification has rapidly replaced the more labour intensive and operator dependent immunofluorescence assays for detection of EMA.

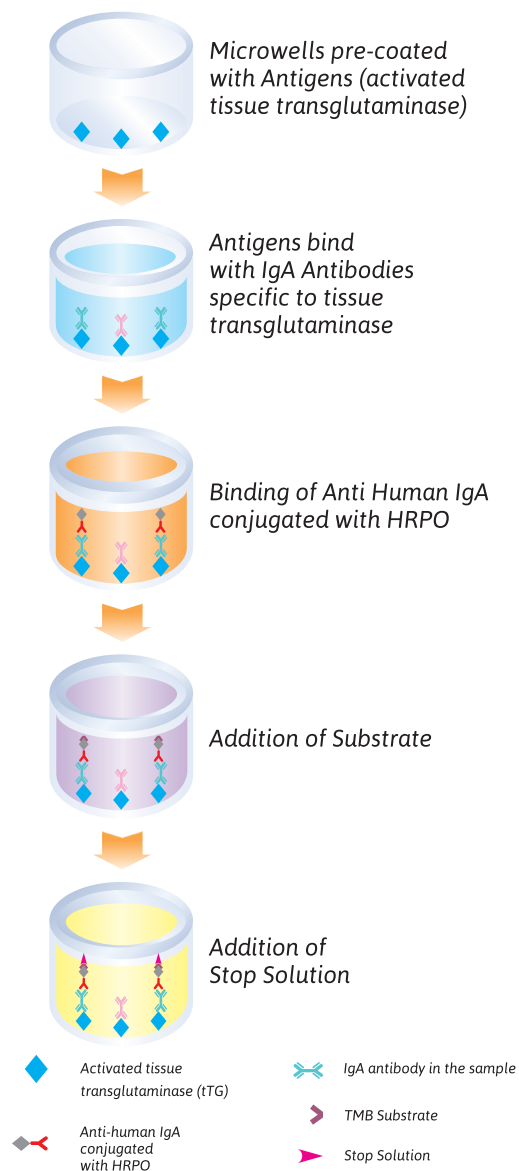
Celiac Microlisa

Microwell ELISA Test for the quantitative/semi-quantitative detection of celiac disease associated IgA antibodies to tissue transglutaminase in human serum/ plasma

Test Procedure

Dilute sample (1:200) sample 5 μl + sample diluent 1000μl																																																					
Add 100 μl controls, calibrators & diluted sample in respective wells.																																																					
Cover the plate and incubate for 30 min. at 37°C																																																					
Wash (5 cycles)																																																					
Prepare working conjugate solution (1:50)	<table><tr><td>No. of strip</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>Enzyme conjugate</td><td>20</td><td>40</td><td>60</td><td>80</td><td>100</td><td>120</td><td>140</td><td>160</td><td>180</td><td>200</td><td>220</td><td>240</td></tr><tr><td>Concentrate (μl).</td><td>1.0</td><td>2.0</td><td>3.0</td><td>4.0</td><td>5.0</td><td>6.0</td><td>7.0</td><td>8.0</td><td>9.0</td><td>10.0</td><td>11.0</td><td>10.8</td></tr><tr><td>Conjugate Diluent(ml).</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	No. of strip	1	2	3	4	5	6	7	8	9	10	11	12	Enzyme conjugate	20	40	60	80	100	120	140	160	180	200	220	240	Concentrate (μl).	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	10.8	Conjugate Diluent(ml).												
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Add 100 μl working conjugate in each well																																																					
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Wash (5 cycles)																																																					
Prepare working substrate solution	<table><tr><td>No. of strip</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td></tr><tr><td>TMB</td><td>0.5</td><td>1.0</td><td>1.5</td><td>2.0</td><td>2.5</td><td>3.0</td><td>3.5</td><td>4.0</td><td>4.5</td><td>5.0</td><td>5.5</td><td>6.0</td></tr><tr><td>Substrate (ml).</td><td>0.5</td><td>1.0</td><td>1.5</td><td>2.0</td><td>2.5</td><td>3.0</td><td>3.5</td><td>4.0</td><td>4.5</td><td>5.0</td><td>5.5</td><td>6.0</td></tr><tr><td>TMB Diluent(ml).</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	No. of strip	1	2	3	4	5	6	7	8	9	10	11	12	TMB	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	Substrate (ml).	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	TMB Diluent(ml).												
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TMB Diluent(ml).																																																					
Add 100 μl working substrate in each well																																																					
Incubate in dark for 30 min at room temperature.																																																					
Add 100 μl Stop Solution and read result at 450 nm/630 nm.																																																					

Test Principle



Needs early detection to optimize therapeutic outcomes.

Salient Features

- Based on Indirect Elisa
- Excellent **Sensitivity: 100% & Specificity 100%**
- Easy to use on Automated & Semi-automated Processor
- Colour Coded reagents to monitor procedural steps
- Shelf Life: 15 Months at 2-8°C
- Unique Break-away wells

DIAGNOS

CELIAC CARD

Rapid visual and sensitive test for the qualitative detection of Celiac disease associated IgM, IgG & IgA antibodies in human serum/plasma



Salient Features

- Rapid Visual Qualitative Antibody Test
- *Excellent **Sensitivity: 99.26% & Specificity: 99.50%**
- Results within 20 minutes
- Long Shelf life: 24 Months at 2-8°C
- Bio-hazard free, fully covered, see-through Device
- No Instruments required

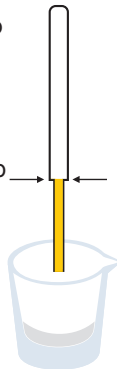
* checked with samples taken from Pediatric Deptt, AIIMS, NEW DELHI

Test Procedure

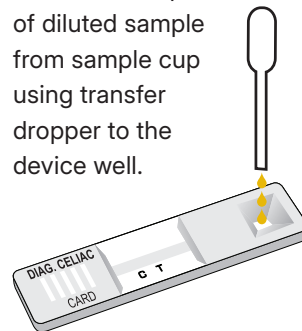
Add 5 drops of Assay Buffer to the sample cup.



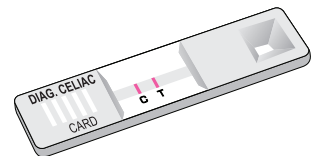
Take sample upto the mark (5 µl) using sample dropper and add to the sample cup & mix properly.



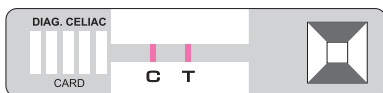
Transfer 3 drops of diluted sample from sample cup using transfer dropper to the device well.



Read result after 20 minutes.



Result Interpretation



REACTIVE for celiac disease



NON-REACTIVE for celiac disease



INVALID result re-run the test



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