

# Microblot-Array Autoimmune gastroenteritis panel



Focus:

**Inflammatory bowel disease (IBD),  
celiac disease, and pernicious anemia**

Included in the kit		6 Antigens
Autoimmune gastroenteritis		ASCA, DAG, tTG, IF, APCA, MPO
IBD Crohn's disease Ulcerative colitis	ASCA	<b>Anti-Saccharomyces cerevisiae antibodies</b> <ul style="list-style-type: none"> <li>– Interacts with Mannan of the cell wall of <i>Saccharomyces cerevisiae</i></li> <li>– Differential diagnosis of IBD (specific marker for Crohn's disease – detection in 60–80% of patients)</li> <li>– Detected in 5-15% of patients with ulcerative colitis</li> <li>– The level of antibodies may be increased in patients with celiac disease</li> </ul>
	MPO	<b>Myeloperoxidase</b> <ul style="list-style-type: none"> <li>– Subtype of p-ANCA, forming a perinuclear fluorescence image</li> <li>– Differential diagnosis of IBD (specific marker for ulcerative colitis)</li> <li>– Diagnosis of rapidly progressive nephritis, necrotizing glomerulonephritis, Churg-Strauss syndrome, microscopic polyangiitis and other vasculitis</li> </ul>
Celiac disease	DAG	<b>Deamidated gliadin</b> <ul style="list-style-type: none"> <li>– Deamidation refers to the modification of gliadin by the enzyme tissue transglutaminase</li> <li>– Important marker for celiac disease</li> <li>– Antibody levels can be monitored over time to assess gluten-free diet</li> </ul>
	tTG	<b>Tissue transglutaminase</b> <ul style="list-style-type: none"> <li>– An enzyme found in various tissues, including the small intestine</li> <li>– Ability to convert gliadin to deamidated gliadin</li> <li>– An important marker for celiac disease, IgA antibodies are predominant</li> <li>– Antibody levels can be monitored over time to assess the gluten-free diet</li> </ul>
Pernicious anemia	IF	<b>Intrinsic factor</b> <ul style="list-style-type: none"> <li>– Glycoprotein produced by parietal cells (important for the absorption of vitamin B12)</li> <li>– Diagnosis of pernicious anemia, inability to absorb vitamin B12</li> </ul>
	APCA	<b>Anti-parietal cell antibodies</b> <ul style="list-style-type: none"> <li>– Autoantibodies to parietal cells</li> <li>– Diagnosis of autoimmune gastritis and related conditions (decrease in the production of IF necessary for the absorption of vitamin B12, which can lead to pernicious anemia)</li> </ul>

## Pre-launch testing

### – Validation kit

Microblot-Array (MBA) Autoimmune gastroenteritis panel – validation kit is a specialized, non-IVD kit, intended for the assessment of the performance and validation of the kit for future diagnostic applications.

### Usage Limitations

Microblot-Array Autoimmune gastroenteritis panel – validation kit is not certified under the *In Vitro* Diagnostic Regulation (IVDR) and is not intended for clinical diagnostic use. As such, it should not be used for providing results intended for patient management or clinical decision-making. Please note that future versions of the kit may or may not be developed and validated for in vitro diagnostic purposes under appropriate regulatory requirements.



## Assay procedure

The assay procedure for MBA Autoimmune gastroenteritis panel – Validation Kit is the same as in the standard version. Serum and plasma can be used as a sample.

Step No.	Test steps
1.	Pipette Universal Solution – 150 µl
2.	Wells soaking at room temperature for 10 min.
3.	Aspirate off
4.	Dilute samples serum/plasma 1:51 (10 µl + 500 µl)
5.	Pipette control and diluted samples – 100 µl
6.	Incubate at room temperature for 30 min.
7.	Quick wash using the Universal Solution
8.	Aspirate and wash 3 x 5 min. with 150 µl of Universal Solution
9.	Pipette Conjugate – 100 µl
10.	Incubate at room temperature for 30 min.
11.	Quick wash using the Universal Solution
12.	Aspirate and wash 3 x 5 min. with 150 µl of Universal Solution
13.	Pipette Substrate Solution (BCIP/NBT) – 100 µl
14.	Incubate at room temperature for 15 min.
15.	Quick wash using the distilled water
16.	Aspirate and wash 2 x 5 min. with 200 µl of distilled water
17.	Dry and evaluate strips



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