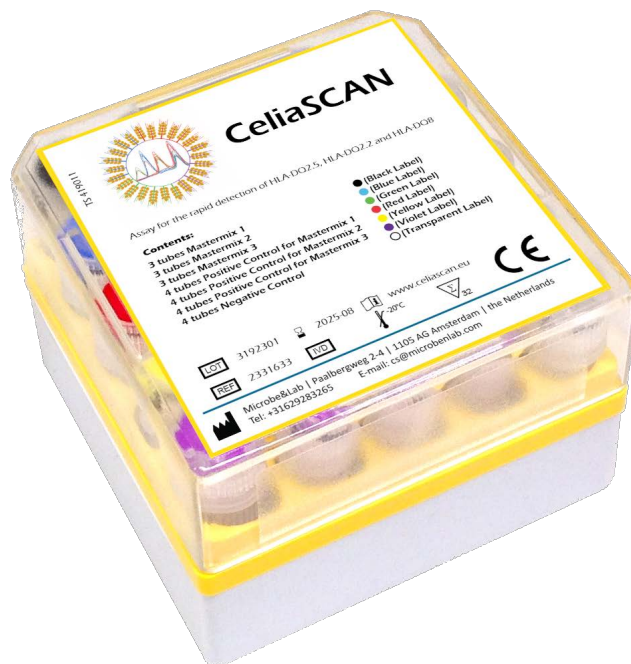


# CeliaSCAN

## A host genetic HLA DQ assay for Celiac Disease susceptibility

CeliaSCAN is an easy to use multiplex real-time PCR Assay and Melting Curve Analysis for the in vitro detection of strongly Celiac Disease-associated human leukocyte antigen (HLA)-DQ2.5, HLA-DQ2.2, and HLA-DQ8.



## Unique features

- Fast and accurate assay with a turnaround time of 90 minutes
- sensitivity and specificity of ~100%
- Distinction can be made between HLA DQ2.2 and HLA DQ2.5.
- Distinction between HLA DQ2.5 homozygotes from HLA DQ2.5 heterozygotes.
- Online software tool for the analysis of the results, therefore human interpretation of results is no longer necessary

## CeliaSCAN workflow



Collect a sample



Isolate DNA



Perform PCR &  
Melting-curve  
analysis



Online report in  
seconds



Follow up if  
necessary

## Celiac disease

Celiac Disease is an autoimmune disease caused by an inappropriate immune response to dietary gluten. 90% of patients with celiac disease express the HLA-DQ2.5 heterodimer. Of the remaining 10% most carry the HLA-DQ8 or HLA-DQ2.2 heterodimers.

Absence of these heterodimers is a very strong negative predictor of celiac disease.

The worldwide prevalence of celiac disease is approximately 1%, however most CD remains undetected.

## HLA facts

90% of patients with celiac disease express the HLA-DQA1\*05, HLA-DQB1\*02 heterodimer (HLA-DQ2.5). Of the remaining 10% most carry the HLA-DQA1\*03, HLA-DQB1\*03:02 heterodimer (HLA-DQ8).

Some of the patients with celiac disease express the HLA-DQA1\*02, HLA-DQB1\*02 heterodimer (HLA-DQ2.2).

Absence of these haplotypes is a strong negative predictor of celiac disease. Individuals homozygous for HLA-DQ2.5 have the highest genetic risk for celiac disease.

## More information

If you have any questions or remarks feel free to contact your key account manager.