

Datasheet for ABIN2648733
HLA DQ-2+8 TaqMan real time PCR Kit

Overview

Quantity:	32 tests
Application:	Real Time PCR (rtPCR)

Product Details

Purpose: MutaPLATE® HLA-DQ2+8 (TM) real time PCR kit is a molecular biological test for detection of the genetic profile determining the HLA class II serotypes DQ2 and DQ8 (MHC system) (LPH) in open real time PCR systems (e. g. RotorGene, SmartCycler, Light Cycler, ABI, Stratagene, Amplifa).

Brand: MutaPLATE®

Sample Type: DNA

Characteristics: Celiac disease (CD) / gluten intolerance (GI) is one of the most often chronic gastrointestinal diseases. The disease is characterised intolerance for gliadin fractions in wheat or analogous proteins in other cereals. The intake of gluten with food causes by patients chronic but reversible damages of the gastrointestinal mucous membrane which finally manifests histological in villous atrophy of the small intestine. CD/ GI is genetically strong associated with the alleles DQA1*05 (=0501)/ DQB1*02 (=0201 and 0202) and DQB1*0302.

Endemic Sprue (ES) – in childhood called celiac disease (CD) – leads finally to villous atrophy as consequence of immune-reactions against own proteins: ES is therefore (in contrary to bacterial caused tropic sprue) an autoimmune disease developing antibodies against own body proteins (e.g. transglutaminases or the endomysium) by persons sensible for ingredients of cereals (oats in small dimension). Sensible are all persons with the inherited specificity DQ2 and/ or DQ8 of the own-/foreign- discrimination system HLA (= MHC), which is in case of ES are therefore present in superiority (> 95% of Finish, 97% of Italian and 100% of Netherland patients) and in normal healthy persons (Europe) about 25 – 40%. This is the reason why CD/ ES is one of the most (often undetected) disease. The chronic damages of the small intestine manifest often during 6th and 18th month. The disease is and not limited exclusively to children

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Product Details

and also extra intestinal manifestations are described.

In many patients it is possible to measure the auto-antibodies. But the analysis of the HLA-serotype DQ2 and DQ8 determining genetic profile (mutations A1*05/ B1*02 =DQ2 and B1*0302 =DQ8) possesses much higher sensitivity. Therefore, the PCR test is used for exclusion of suspicious diagnosis for GI/ ES.

Application Details

Comment: MutaPLATE® HLA-DQ2+8 (TM) real time PCR Kit contains three allele specific primers and TaqMan probes, labeled with FAM, for the detection of the HLA-DQ2 & DQ8 alleles. The TaqMan probes bind to the amplified target-DNA. Due to this, a fluorescence signal is generated and detected by the optical unit of the real time PCR instrument (e. g. Light Cycler®, Roche). Positive samples are identified due to the increase in fluorescence on the FAM (530 nm) channel during the PCR. An internal amplification control (IC), labeled with Yakima Yellow (560 nm), is also amplified with every sample. For a valid result, there must be a successful amplification of the IC on the YAK channel.

Sample Volume: 200 µL

Restrictions: For Research Use only

Handling

Storage: -20 °C

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)