Hereditary hemochromatosis

Devyser HFE v2

Discover the advantages

- Simultaneously identifies the three most important HFE mutations and the corresponding wild types
- Speed and ease of use: single-tube PCR minimizes hands-on time
- Accurate and efficient: single-tube PCR reduces laboratory workload and analysis times while minimizing the risk of sample mix-up

Hereditary hemochromatosis (HH) is a common autosomal recessive disorder of iron metabolism resulting in progressive accumulation of iron. Excess iron is deposited in a variety of organs leading to irreversible tissue damage, particularly in the liver and pancreas. The symptoms include liver cirrhosis, cardiomyopathy, hepatomas, diabetes, arthritis, and hypogonadotropic hypogonadism.

Classic or type 1 HH is caused by mutation in the HFE gene on chromosome 6p21.3. More than 80% of HH patients carry homozygous C282Y mutations. An increased risk of developing HH has also been shown in individuals where the compound heterozygosity C282Y/H63D is present. The findings are similar for individuals that are heterozygous for S65C and C282Y.

Diagnosis and treatment

Confirmatory diagnostic testing to diagnose or rule out HH should be carried out for symptomatic individuals with biochemical evidence of iron overload. Early diagnosis of the disease is crucial since severe effects of the disease may occur if the condition is left untreated. Removal of excess iron by therapeutic phlebotomy decreases morbidity and mortality if instituted early in the course of the disease.

Indications for the use of Devyser HFE v2

- Patients with HH
- Patients with early HH symptoms
- Identification of carriers in affected families
- Differential diagnosis in chronic viral hepatitis or alcohol-induced liver damage

Technical specifications

Intended use:
In-vitro diagnostic product for identification of mutations in the HFE gene

CE- labelled for IVD use

Compatible Genetic Analyzers:
Thermo Fisher's capillary electrophoresis instruments: ABI 310, ABI 3130, ABI 3500, ABI 3730

Ready to use for PCR

DNA input:
50 – 150 ng / PCR reaction

HFE mutations detected:
C282Y, H63D, S65C

Kit size:
48 test

Article number:
8-A030.2

DNA Size marker:
560 SIZER ORANGE
(Art. No.: 8-A402)

Contact

Instrumentvägen 19
SE-12653 Hägersten
Sweden
Tel: +46-(0)8-562 158 50
Fax: +46-(0)8-32 64 88
Web: www.devyser.com
Email: info@devyser.com

Devyser. Results for life.

Devyser is specialized in the development, manufacture and sales of diagnostic kits for complex DNA testing within Oncology, Reproductive Health and Hereditary Diseases. The products are used to guide targeted cancer therapies, to enable rapid prenatal diagnostics as well as in a wide array of genetic tests. Devyser's product development focuses on simplifying and streamlining complex testing processes to improve throughput, reduce hands-on time and produce accurate and trusted results.

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