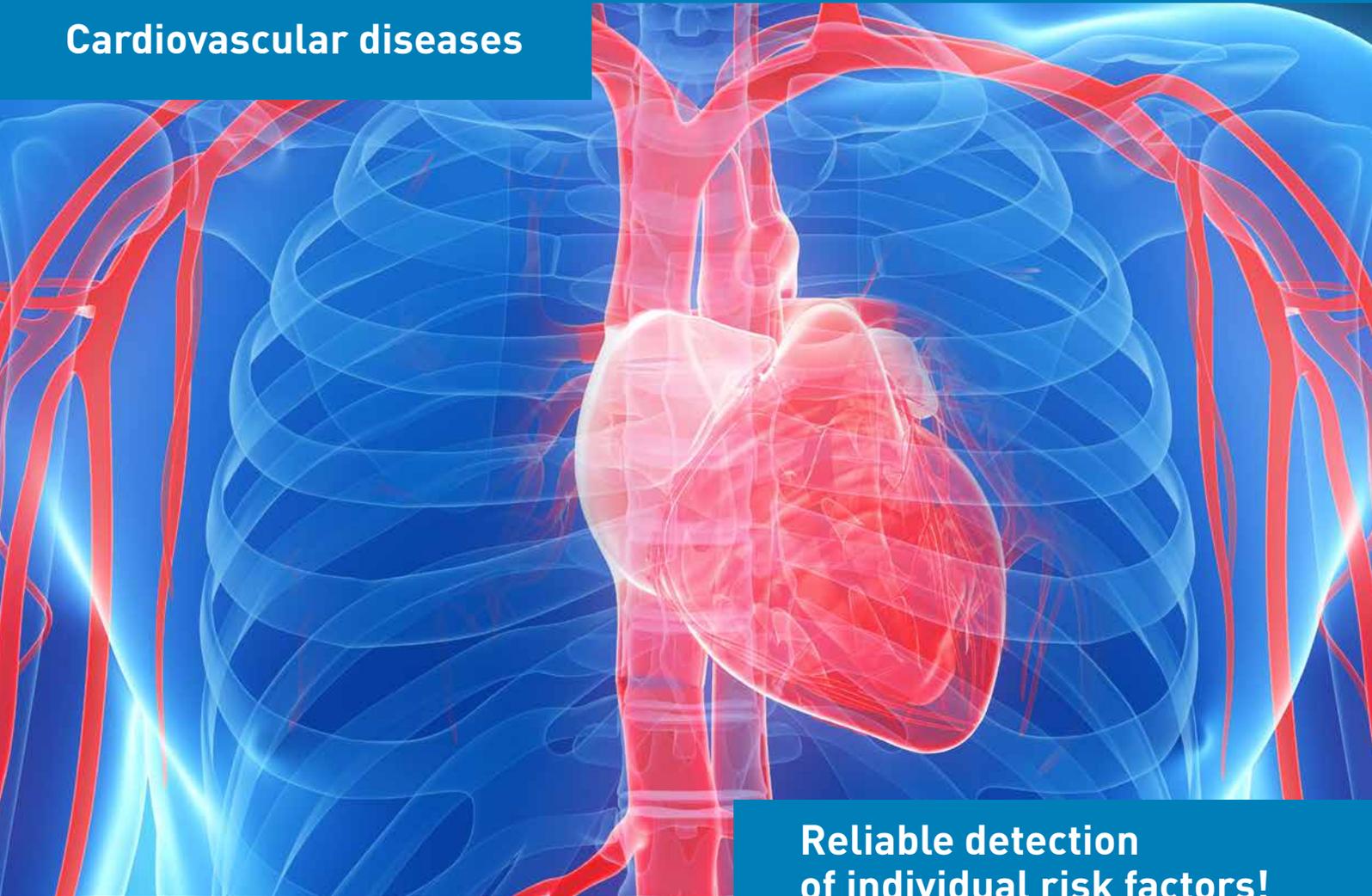


## Cardiovascular diseases



Reliable detection  
of individual risk factors!



Your molecular genetic test system for a reliable detection of the three most frequent alleles of the ApoE gene.

### Your benefits of using GenoType ApoE

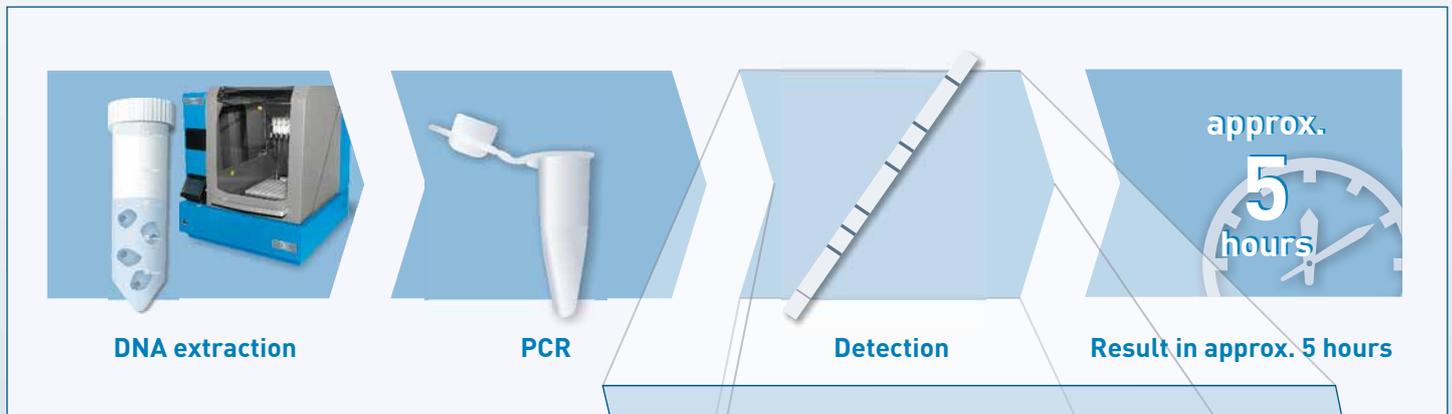
- **Reliable results:** Biochemical methods for the detection of the ApoE alleles are complex and prone to error whereas genotyping with **GenoType ApoE** generates reliable results within a very short time.
- **User-friendly:** The user-friendly **DNA•STRIP** technology combines both high information content and efficient processing. A ready-to-use amplification mix including the Taq polymerase is provided in the kit. This saves time and money and facilitates the integration of the test system in your laboratory routine.
- **Cost-efficient:** No cost-intensive equipment is needed. You choose your individual grade of automation gaining maximum flexibility.
- **Reliable diagnostics from one source:** From DNA isolation to result – Hain Lifescience is your reliable partner for laboratory diagnostics.
- **CE-IVD certified:** No need for elaborate validation studies!

### Facts

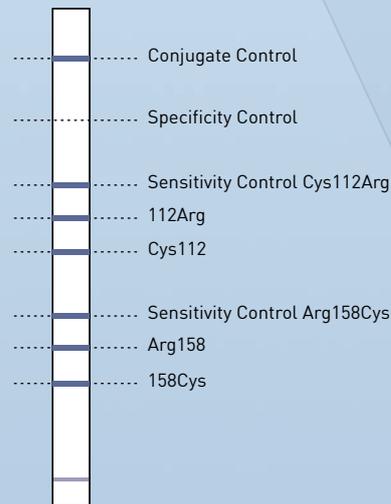
In industrialized countries, cardiovascular diseases are widespread and the most common cause of death. Every year hundreds and thousands of people die as a result of vascular occlusions such as heart attacks, strokes or pulmonary embolisms.

Besides high blood pressure, elevated LDL cholesterol, diabetes, smoking and obesity, genetic predispositions are among the significant risk factors for cardiovascular diseases. In addition to other predispositions the genetically caused risk of disease is increased by polymorphisms of the ApoE gene. ApoE (Apolipoprotein E) is a protein that plays an important role in the lipid metabolism and can be present in three different forms as a result of genetic polymorphisms: ApoE2, ApoE3 and ApoE4 which are determined by the alleles  $\epsilon 2$ ,  $\epsilon 3$  and  $\epsilon 4$ . The isoform ApoE3 has a cysteine on position 112 and an arginine on position 158, ApoE2 has a cysteine residue on both positions, ApoE4 two arginine residues, respectively. Although the two mutated forms differ from the wild type ApoE3 by only one amino acid in each case, the consequences are significant: In the homozygotic presentation, the  $\epsilon 2$  allele is associated with type III hyperlipoproteinaemia and an increased risk of arteriosclerosis. Carriers of the  $\epsilon 4$  allele are exposed to an increased risk of coronary heart disease due to the disrupted lipid metabolism. In addition, the  $\epsilon 4$  allele is associated with Alzheimer's disease.

### GenoType ApoE: Reliable detection of the three most frequent alleles of the ApoE gene



**GenoType ApoE** identifies safely and reliably the genotypes  $\epsilon 2$ ,  $\epsilon 3$  and  $\epsilon 4$  of the ApoE gene. Moreover, we offer a broad range of various thrombophilia test systems based on the same technology like **ThromboType®**, **ThromboType®plus**, **GenoType MTHFR**, **GenoType CVD** und **GenoType PAI-1**.



Further information is directly available from Hain Lifescience or your local distributor.

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