

GenoType[®] LCT

Based on DNA•STRIP[®] Technology



- simple
- safe
- fast
- easy to combine
- can be automated



CE -labelling

Quality management certified to ISO 9001/13485



The **GenoType[®] LCT** provides the opportunity to determine the risk of a genetically determined lactose intolerance.

Your contributors will benefit from the following advantages:

- Accuracy – the **GenoType[®] LCT** detects primary genetically related lactose intolerance exclusively. Therefore, you can assure a clear-cut differentiation from secondary acquired lactose intolerance.
- Rapidity – the **GenoType[®] LCT** replaces time-consuming conventional procedures. The test procedure is based on whole blood specimens; the patient does not have to spend hours in the clinical practice.
- Patient-friendly – the **GenoType[®] LCT** causes the patient no discomfort since the identification is carried out on genetical level. The patient does not have to ingest lactose therefore any distressing concomitant symptoms can be avoided. Different from conventional functional tests, no food abstention is necessary prior to sampling.

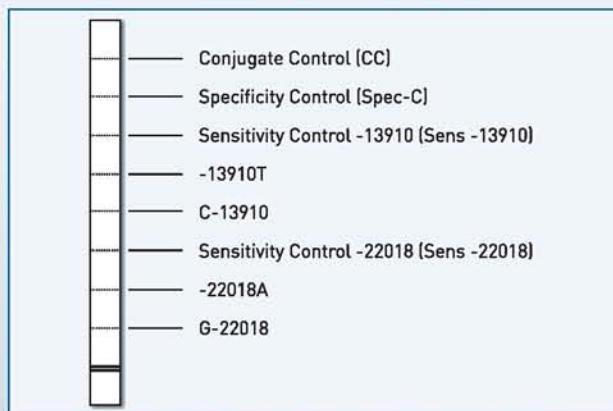
Facts:

Primary lactose intolerance develops in about 80-95% of Africans and Orientals. About 50% of Mediterranean are affected while up to 15-20% of Northern Europeans develop primary lactose intolerance.

In contrast to the secondary lactose intolerance, the primary form is determined genetically. The activity of the enzyme lactase, which splits the disaccharide lactose in the small intestine diminishes as the concerned people grow older. Hence, the term lactase deficiency is also used. Additional consequences, such as non-specific complaints of the digestive tract, start mostly in early adolescence.

Genetic background:

It is known that primary lactose intolerance correlates with two genetic polymorphisms in the enhancer region of the lactase gene (LCT). These two polymorphisms (C/T-13910 and G/A-22018) are detected by the **GenoType® LCT** assay. Studies show that the genotype C/C at position 13910 and the genotype G/G at position 22018 are associated with the risk of lactase deficiency and lactose intolerance, respectively.



Reaction zones of the **GenoType® LCT**

By simply combining the **GenoType® LCT** with other parameters of the **GenoType®** series and thanks to minimized technical requirements even small laboratories benefit from efficient and modern diagnostics. All **DNA-STRIP® Technology**-based assays can easily be incorporated into your routine diagnostics, both in a manual and automated manner. In addition to **GenoType® LCT**, our human genetic product series offers a number of further tests. For technical information, please refer to the brochure "**DNA-STRIP® Technology**".

Hain Lifescience GmbH

Hardwiesenstraße 1 | 72147 Nehren

Tel.: +49 (0) 74 73- 94 51- 0 | Fax: +49 (0) 74 73- 94 51- 99

E-Mail: info@hain-lifescience.de | www.hain-lifescience.de

HAIN
LIFESCIENCE