



ZenTech

For a safer life start



## qPCR ASSAY FOR THE DETECTION OF SMN1 MUTATION FROM DRIED BLOOD SPOTS OF NEONATES



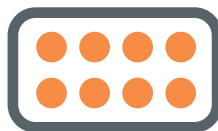
### Targeted qPCR™ SMA kit

**Spinal Muscular Atrophy (SMA)** is an autosomal recessive disease caused by a deletion in the **7th exon of SMN1 gene**.

The **Targeted qPCR™ SMA kit** is designed to genotype the mutation site associated with SMA without differentiation between heterozygous and wild type and is provided in an **easy-to-use format**.



Identifies only  
homozygous SMA



Pre-dispensed plate  
with MasterMix



30min extraction time

DNA ANALYSIS



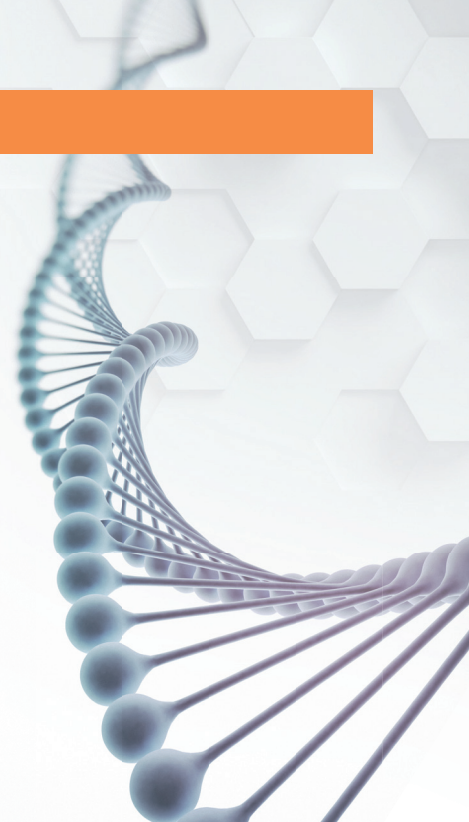
## Test description

The test is divided into **two steps**: an initial **extraction and lysis step** and a second **DNA amplification step** via qPCR.

The extraction and lysis of the sample on filter paper is carried out by adding two buffers and a 30-minute incubation step on microtitration plates (not included). The extracted sample is then transferred to the Master Mix **pre-filled microtitration plate** provided in the kit.

The amplification step is completed using the Biorad CFX96 thermocycler and the qPCR programme lasts 1 hour. The FAM fluorochrome is used for detecting the **wild-type SMNI allele** and the HEX fluorochrome for detecting the **RPP30** 'housekeeping gene'.

The sample from a healthy patient will generate a HEX and FAM signal and an SMA patient will generate a HEX signal only. A synthetic DNA test, recognised by HEX and FAM, is provided with the kit to ensure proper function of the amplification step.



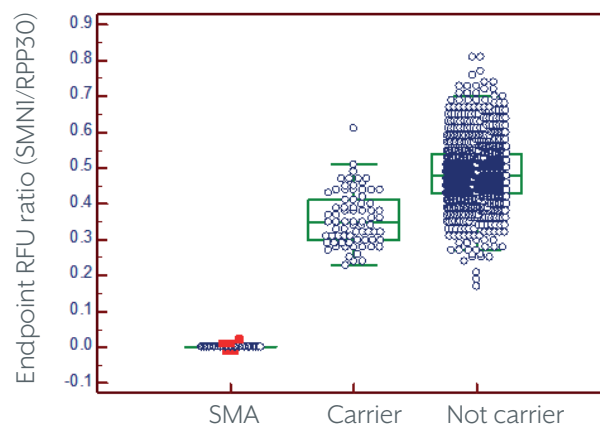
## Benefits



- **Specificity**: detects homozygous only
- **Saves time**: plates pre-filled with the Master Mix
- **Speed**: result in approximately 90 minutes
- **Quality control**: positive control provided in the kit
- **Practical**: extraction and lysis buffers included and ready to use

## Performances

No differentiation between heterozygous SMA (carrier) and healthy patient (not carrier)



## General product information

- Storage at -20°C
- Ordering information:
  - Targeted qPCR™ SMA
  - Product code : K-LT-480
  - Size : 480 determinations



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CE marked