



## BIORON - Medica 2020

# One Enzyme – Many new applications for Life Science

### SD-Polymerase – A Precise Tool for PCR and NGS Technology

Since the 80s the well-known Taq Polymerase is the key tool for deciphering the universal genetic code. It was the breakthrough of Kary B. Mullis to use this biological component to analyze and to multiply DNA information. Based on this fundamental approach and patented technology, several new applications were developed and offered new pathways for diagnostic and modern Life Science Research. Now the PCR and DNA- Sequencing is the Gold Standard for any modern Bioresearch or Biotech lab.

BIORON has been using the proprietary technology and patent property for more than a decade and offers today a full set of related products. The modified and optimized Polymerases have several advantages for the applications and makes already established procedures much more efficient – higher sensitivity – faster results. More and more customers are nowadays focused to work with new tools for research and commercial applications.

Here a brief collection of the successful transferred applications with BIORONs SD-Polymerase:

#### PCR - application

- Loop-mediated Isothermal Amplification (LAMP)
- Isothermal Amplification (PoC)  
PCR (difficult fragments) - Long PCR (long fragments) / qPCR with special probes  
PCDR (possible with SD-Polymerase only)

#### NGS – Sample Preparation

- Single Cell Whole Genome Amplification Kit
- One Step Whole Genome Amplification Kit
- DNA Fragmentation Kit - Library generation
- Library Generation Kit – New – coming soon in January 2021

#### Liquid Biopsies with the Cell-free Extraction kit

Our newly released DNA extraction tool enables also the analysis of circulating DNA and fragments in Serum or Plasma. This fast and easy protocol offers for Cancer Research and Therapy monitoring multiple opportunities with Liquid Biopsies. In combination BIORONs Cell-free DNA Extraction Kit and high-sensitive PCR with the SD-Polymerase, several customers demonstrated reliable results and could improve the established analytical process.

Key words: LAMP, PCDR, NGS, PCR Sensitivity, Strand displacement, Liquid Biopsies

**Interested to improve your PCR and NGS results ?**

**Please ask us for support**