

Polymerases

PCR 2.0 by BIORON



20th
ANNIVERSARY

BIORON

YOU CAN EXPECT:

- GREAT VARIETY OF PCR APPLICATIONS
- COMPONENTS FOR YOUR PRODUCTION
- IVD RAW MATERIALS UNDER ISO 13 485

Polymerases
made in Germany by

BIORON
life science



BIORON's DNA Polymerases: general overview

BIORON offers a wide range of polymerases for various applications. All polymerases are provided with advanced reaction buffers. For optimization on customers' side we provide different buffer systems (based on ammonium or potassium) for most of our polymerases.

Characteristics	Concentration per µl	Application			5'-3' Exo-nuclease	Strand Displacement	Reverse Transcriptase activity	Hot Start	Amplifications up to	REF	Pack size
		End-point	Real Time	Multi-plex							
DFS-Taq	5 U	✓	✓	✗	✓	✗	✗	✗	5 kb	101005 101025 101100	500 U 2.500 U 10.000 U
SuperTaq*	5 U	✓	✓	✓	✓	✗	✗	✗	5 kb	108002 108010	200 U 1.000 U
SuperHotTaq*	5 U	✓	✓	✓	✓	✗	✗	AB	5 kb	129002 129010	200 U 1.000 U
SuperHotTaq HC*	30 U	✓	✓	✓	✓	✗	✗	AB	5 kb	129030HC 129030HC-GF	1.000 U 2.000 U
AptaHotTaq*	5 U	✓	✓	✓	✓	✗	✗	Aptamer	5 kb	119602 119610	200 U 1.000 U
AptaHotTaq HC*	30 U	✓	✓	✓	✓	✗	✗	Aptamer	5 kb	119630HC	1.000 U
SmartTaq	5 U	✓	✓	✓	✓	✗	✗	✗	7 kb	103020 103022	200 U 1.000 U
SmartHotTaq	5 U	✓	✓	✓	✓	✗	✗	AB	7 kb	102020 102022	200 U 1.000 U
Tth	5 U	✓	✓	✓	✓	✗	✓	✗	4 kb	104005 104025	500 U 2.500 U
DF-Pfu	5 U	✓	✓	✓	✓	✗	✗	✗	2 kb	108105 108125	500 U 2.500 U
Reverse Transcriptase	200 U	✓	(✓)	✓	✗	✗	✓	✗	7 kb	105500 105500GF	50.000 U 100.000 U
Klen SNase	25 U	✓	✓	✓	✗	✗	✗	✗	0.5 kb	108205 108225	500 U 2.500 U
SNase HotStart	20 U	✓	✓	✓	✗	✗	✗	AB	0.5 kb	108210 108250	500 U 2.500 U
SD Polymerase	10 U	✓	(✓)	✓	✗	✓	✗	✗	30 kb	108702 108710	200 U 1.000 U
SD Polymerase	50 U	✓	(✓)	✓	✗	✓	✗	✗	30 kb	108800 108850	1.000 U 5.000 U
SD Polymerase HotStart	10 U	✓	(✓)	✓	✗	✓	✗	AB	30 kb	108902 108910	200 U 1.000 U

* All variants of these polymerases fall under our ISO 13485 certificate (medical).



BIORON's DFS-Taq DNA Polymerase is the basic enzyme for all standard PCR applications where no HotStart is required. Available as high concentrated variant upon request.

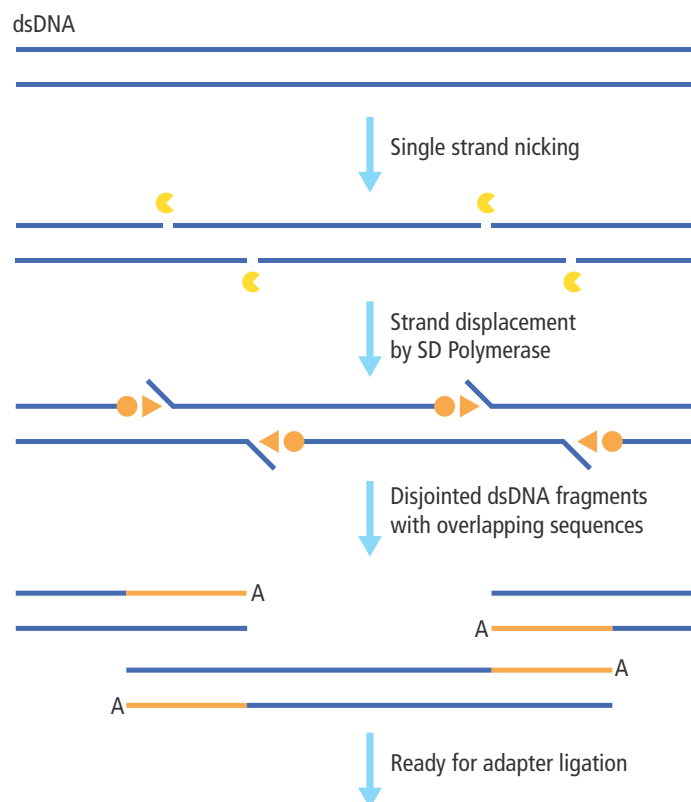
The **SuperHotTaq** has the perfect ratio between Taq Polymerase and anti-Taq antibody which allows convenient reaction set-up at room temperature. One enzyme, 100 possible applications. It is especially suitable for complex genomic or cDNA templates or low copy number targets. SuperHotTaq is temperature stable and can be used and stored at room temperature for several days without cooling.

The **AptaHotTaq** is a variant of SuperHotTaq where the polymerase is reversibly blocked by DNA-aptamers instead of antibody. SuperHotTaq and AptaHotTaq are available in customized variants like high concentration (HC) or glycerol free (GF) for lyophilization. An additionally purified ultra pure (UP) version of the SuperHotTaq for super sensitive assays is available on request. All variants of our SuperTaq and AptaTaq fall under our **ISO 13485 certificate** (medical).

SmartHotTaq is a genetically modified version of SuperHotTaq, which gives the enzyme a higher processivity and stronger resistance against inhibitors. Especially recommended for qPCR applications with high multiplexing grade. This product has also been developed for production of diagnostic kits. Customized variants with higher concentration or without glycerol are available upon request. All three "HotTaq" Polymerases are available without antibody or DNA-aptamer.

Our **Reverse Transkriptase** is a modified M-MuLV (Moloney Murine Leukemia Virus) Reverse Transcriptase. The RNA or DNA directed polymerase has a reduced RNase H stability and a higher thermostability than other Reverse Transcriptases. Reverse can be combined with Taq Polymerase for RT-qPCR applications. It is also available as glycerol free variant for lyophilization.

SD Polymerase is BIORON's patented & unique thermostable enzyme with 5'-3' polymerase and 5'-3' strand displacement activity. It is suitable for Isothermal Amplification and PCR amplification of short and long DNA fragments (100 bp - 30 kb) from simple and complex templates without special optimisation. Due to displacement activity SD Polymerase is efficient in resolving secondary structures. Available in customized variants e.g. with attached Antibody (AB) for room temperature setup or as high concentrated product (HC).





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Our QM system has been certified by

