

PCR Control Kit

Amplification of a beta-actin gene fragment from human genomic DNA

Supplements for PCR

Cat.-No.	Amount
PCR-253	500 reactions

For *in vitro* use only
 Quality guaranteed for 12 months
 Store at -20°C

Description

PCR Control Kit is designed as tool to confirm or compare the quality and functionality of Taq DNA polymerases. The kit contains a forward and reverse primer-pair designed to amplify a 295 bp long fragment of the β -actin gene from human genomic DNA.

Recommended PCR assay

Component	Supplied conc.	Final conc.	Amount for 50 μ l assay
Taq reaction buffer, complete	10 x	1 x	5 μ l
dNTP Mix	10 mM	200 μ M	1 μ l
β -actin forward Primer	10 μ M	300 nM	1.5 μ l
β -actin reverse Primer	10 μ M	300 nM	1.5 μ l
Human genomic DNA	10 ng/ μ l	5-10 ng / 50 μ l	0.5-1 μ l
Taq Polymerase	5 units/ μ l	1.25 units / 50 μ l	0.25 μ l
PCR grade H ₂ O			Fill up to 50 μ l

Recommended cycling conditions

Initial denaturation	95°C	2 min	1x
Denaturation	95°C	20 sec	30 x
Annealing	60°C	20 sec	
Elongation	72°C	40 sec	
Final elongation	72°C	2 min	1x

β -actin forward Primer, 750 μ l (white cap)

10 μ M

β -actin reverse Primer, 750 μ l (white cap)

10 μ M

Human genomic DNA (male), 500 μ l (purple cap)

10 ng/ μ l

Related products

Ready-to-Use Mixes
 Thermophilic Polymerases
 Deoxynucleotides (dNTPs)
 Custom Primers
 DNA Ladders