



## A.B.T.™ 2X PCR MasterMix (without Dye)

Cat#	Size
• P01-01-01	1 ml
• P01-01-05	5 ml

**Description:** A.B.T.™ 2X PCR MasterMix is eminently effective and budget a PCR MasterMix solution. The MasterMix solution is ready for use. The amplification capacity of the MasterMix can reach up to 5000 nucleotides. Taq DNA Polymerase, dNTPs, enhancer, MgCl<sub>2</sub> and stabilizer are the components of the MasterMix. The PCR products are suitable with T/A cloning. A.B.T.™ 2X PCR MasterMix provides admirable and coherent products in conventional PCR, RT-PCR, colony PCR and high-throughput genotyping. A.B.T.™ 2X PCR MasterMix has an exceptionally processive 5'→3' DNA polymerase but lacks the 3'→5' proofreading and 3'→5' exonuclease activity features.

**Quality Control:** Nicking activity, priming activity, exonuclease activity, or endonuclease activity has not been detected.

### Kit Components:

Components	P01-01-01	P01-01-05
A.B.T.™ 2X PCR MasterMix (without Dye)	1 ml	5 ml

**Recommended Protocol:** All reagents should be thawed on ice, gently mixed and briefly centrifuged before use. This protocol is exemplary for one reaction, and for multiple reactions it is necessary to calculate the components in a proportional manner. Prepare each of following components, combine on ice and place in heated (95°C) thermal cycler:

For 20 µl PCR Reaction	Volume	Final Conc.
A.B.T.™ 2X PCR MasterMix	10 µl	1X
Forward Primer (10 µM)	0.2 - 2 µl	0.1 - 1 µM
Reverse Primer (10 µM)	0.2 - 2 µl	0.1 - 1 µM
Template	1 - 5 µl	< 250 ng
RNase-Free Distilled Water	up to 20 µl	-

### General Cycling Conditions:

PCR Step	Temp (°C)	Time	Cycle
Initial Denaturation	95	300 sec.	1
Denature	95	10 - 60 sec.	25 - 40
Anneal	50 - 65	10 - 60 sec.	
Extend	72	60 sec./kb	
Final Extension	72	300 sec.	1

**Notice:** Depending on different primer and template combinations cycling conditions can be optimized. For example, raise the annealing temperature to prevent non-specific primer binding. On the other hand, increase extension time to generate longer PCR products.

**Storage Conditions:** Store all contents at -20°C in a freezer.