

## PCR Enhancer

FOR INCREASING EFFICIENCY AND SPECIFICITY OF PCR  
(Cat. No. E101)

rev. 01/2017

### Description

Amplification of DNA fragments by PCR often demands optimization of reaction conditions, which lead to the removal of undesirable unspecificities and to the increase of amount of PCR product. Optimization includes the concentration of  $Mg^{2+}$ , concentration of polymerase, temperature of annealing of oligonucleotide primers and others. In some cases optimization can be reached by addition of additives (e.g. DMSO or formamide). Interesting effects have been obtained with tetramethyl ammonium (TMA) oxalate (Kovářová and Dráber, Nucleic Acid Res., 28: e70, 2000), which is available under the commercial name PCR Enhancer. This enhancer can be added directly into PCR mixture.

### Technical data

#### Storage

- Store at temperature from  $-20 \pm 5^{\circ}C$ . Material can be repeatedly defrosted. One package is sufficient for 1000 reactions in a volume of 50  $\mu$ l.

#### Packaging

- 1 tube contains 1 ml of PCR Enhancer.

#### Concentration

- 0.1 M TMA oxalate in PCR  $H_2O$ .

### Protocol

#### Recommended protocol for the use of PCR enhancer

- PCR enhancer is diluted 1:50 into PCR reaction solution; i. e. if PCR is performed at reaction volume 50  $\mu$ l, 1  $\mu$ l of PCR enhancer is added directly into PCR mix.

Cat. No.	Product name and specification	Amount
E 101	PCR enhancer	1 ml

