



**PEC-1**  
**PCR Enhancer Cocktail**      **Cat #: E600**

**Amount:** 5 x 1.25 ml PEC-1 (100 x 25 ul reactions each)

**Shipping conditions:** Ambient temperature

**Storage conditions:** -20° C

**Shelf life:** 4 years at -20°C. If crystallization occurs, the solutions can be restored by soaking at 50-70°C.

**PRODUCT DESCRIPTION:**

PCR Enhancer Cocktail 1 (PEC-1) is particularly recommended for purified DNA, blood treated with heparin, citrate, or EDTA, or plasma treated with heparin.

Our family of PEC products are non-betaine based PCR enhancers specifically designed for use with inhibitory templates such as plasma, serum, whole blood, inhibitory food matrices, plant tissue, polyphenolic samples, humic acid, bile, and feces. In many cases amplification may be performed **without DNA purification**. They are highly recommended for use with our inhibition-resistant Taq and Klentaq mutants. When used with a PEC, our enzymes can tolerate at least 25% plasma, serum, or whole blood, and as high as 80% GC content templates. PECs are efficient in conventional or real-time PCR, both in SYBR Green and TaqMan assays. PECs are compatible with most commercially available DNA polymerases, but they are not recommended for use with AmpliTaq Gold.

**APPLICATION:** Include PEC as one half the volume of your PCR reaction (add 25µl to each 50µl PCR reaction or 12.5µl to each 25µl PCR reaction.)

**Please visit us on the web at [www.klentaq.com](http://www.klentaq.com) for help selecting the appropriate PCR Enhancer Cocktail for your application. We also offer troubleshooting and provide detailed protocols.**

**REFERENCES:**

Zhang, Z., et al. (2010) Direct PCR Amplification of DNA from Crude Samples Using a PCR Enhancer Cocktail and Novel Mutants of Taq. *J Mol Diagn*, 12 (2): 151-161.

**Notice to Purchaser:** DNA Polymerase Technology products may not be resold, modified for resale, or used to manufacture products without an agreement with DNA Polymerase Technology, Inc. DNA Polymerase Technology's PEC products are patent pending. No license for PEC products to be used in a Polymerase Chain Reaction has been purchased by DNA Polymerase Technology, Inc