

AccuPower[®] PCR PreMix
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AccuPower[®] PCR PreMix is a new, powerful, and ready-to-use PCR reagent optimized for more accurate PCR amplifications.

Advantages

- Speed** Substantial reduction in PCR setup time.
- Stability** AccuPower[®] PCR PreMix is the powerful technology for convenient and easy to perform DNA amplification. It contains DNA polymerase, dNTPs, a tracking dye and reaction buffer in a premixed format, freeze-dried into a pellet. The patented chemical stabilizer of this product enables to maintain the activity of pre mixture for over a month even when stored at room temperature (25°C), over 2 years in the freezer.
- Reproducibility and Yield** Batch manufacturing under strict ISO 9001 quality control conditions guarantees reproducibility. Minimal handling during reaction set up provides improved accuracy.
- Simplicity** Each product line contains an application specific enzyme in an easy to re-suspended, lyophilized premix of dNTPs, reaction buffer, a tracking dye, and a stabilizer. The premix is ready to use, thus offering virtually no reaction set up time.

Contents

Component	Reaction size	20 µl reaction	50 µl reaction
Top DNA polymerase		1 U	2.5 U
Each: dNTP (dATP, dCTP, dGTP, dTTP)		250 µM	250 µM
Tris-HCl (pH 9.0)		10 mM	10 mM
KCl		30 mM	30 mM
MgCl ₂		1.5 mM	1.5 mM
Stabilizer and tracking dye			

Experimental Protocol

- Add template DNA and primers to AccuPower[®] PCR tube.

Concentration of template DNA and primer

	20 µl reaction	50 µl reaction
Template DNA	5 – 50 ng	10 - 100 ng
Primer	5 - 10 pmole	10 - 20 pmole

- Add distilled water to AccuPower[®] PCR tubes to a total volume of 20 µl or 50 µl.
- Dissolve the lyophilized blue pellet by vortexing, and briefly spin down.
- Add mineral oil. (This step is unnecessary when using a thermal cycler with top heating.)
- Perform PCR of samples.
- Load samples on agarose gel without adding a loading-dye mixture, and perform electrophoresis.

Notice to Purchaser

This enzyme is specifically optimized for increasing base incorporation rate by inactivating 5'→3' exonuclease activity. Therefore, this is not recommended to use for Real Time PCR using TaqMan[®] probe.

Trademark

AccuPower is a trademark of Bioneer Corporation.

Ordering Information

Tube type	Reaction	Cat.No.	Description
0.2ml Tube	20 ul	K-2012	0.2 ml thin-wall 8-strip tubes with attached cap / 96 tubes
		K-2016	0.2 ml thin-wall 8-strip tubes with attached cap / 480 tubes
	50 ul	K-2013	0.2 ml thin-wall 8-strip tubes with attached cap / 96 tubes
		K-2017	0.2 ml thin-wall 8-strip tubes with attached cap / 480 tubes
0.5ml Tube	50 ul	K-2011	0.5 ml thin-wall tubes with attached cap / 100 tubes
96-well	10 ul	K-2260-1	thin-wall 96-well flat plate
		K-2260-2	thin-wall 96-well full-skirted plate
		K-2260-3	thin-wall 96-well semi-skirted plate
	20 ul	K-2260-4	thin-wall 96-well flat plate
		K-2260-5	thin-wall 96-well full-skirted plate
		K-2260-6	thin-wall 96-well semi-skirted plate
384-well	5 ul	K-2080-1	thin-wall 384-well full-skirted plate
	10 ul	K-2080-2	thin-wall 384-well full-skirted plate
	20 ul	K-2080-3	thin-wall 384-well full-skirted plate
Master Mix	-	K-2018	1 ml of 2 X Master mix solution
		K-2018-1	10 ml of 2 X Master mix solution

A complete product list appears on our web site at www.bioneer.com