

AccuPower® PreMix Series

Tomorrow's technology, available today!

- Convenient
- Fast
- Flexible

Description

AccuPower PreMix series is an innovative product range designed to make your PCR, reverse transcription and RT-PCR experiments easier and more cost effective than ever. With a wide range of applications and unparalleled ease of use and stability, *AccuPower* PreMix series will be an important addition to your collection of research tools.

Each tube or plate you order has all the components of a master mix (enzyme, buffer, dNTPs) lyophilized with a stabilizer that maintains full activity for over one month at room temperature, and two years in the freezer. Simply add your primers and template—and never make a dNTP or enzyme stock solution again!

Try before you buy—visit <http://us.bioneer.com/sample> to qualify for a free sample from our *AccuPower* PreMix series. In addition, when you respond to a short survey after you try our product, we will take 50% off your first order!

Features and Benefits

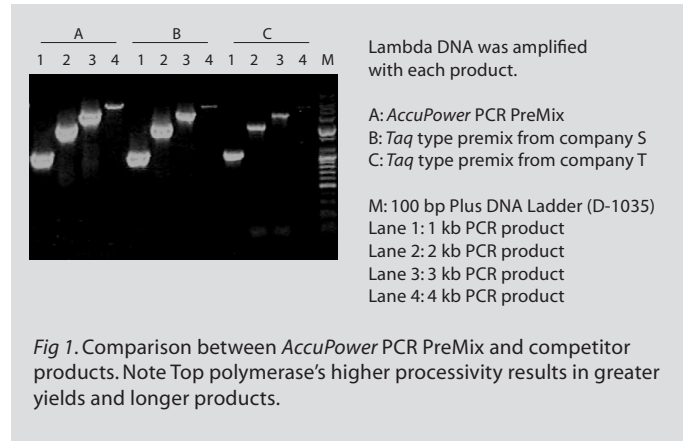
Fast	Just add primer and template.
Convenient	No more dNTP or enzyme stock solutions.
Flexible	Available in tubes (0.2 or 0.5 mL) or plates (96 or 384).
Stable	For 2 years in the freezer, and one month at room temperature.
Customizable	Available with primers already added for even greater convenience.
Gel Loading	Available with or without a tracking dye for ease of use.

AccuPower® PCR PreMix

AccuPower PCR PreMix includes our super-processive “three times faster than *Taq*” Top DNA polymerase. Purchase with or without tracking dye depending on your application. If purchased with tracking dye, reactions can be loaded on agarose gels without adding loading buffer.

Applications

- Standard PCR up to 10 kb
- TA cloning
- DNA sequencing

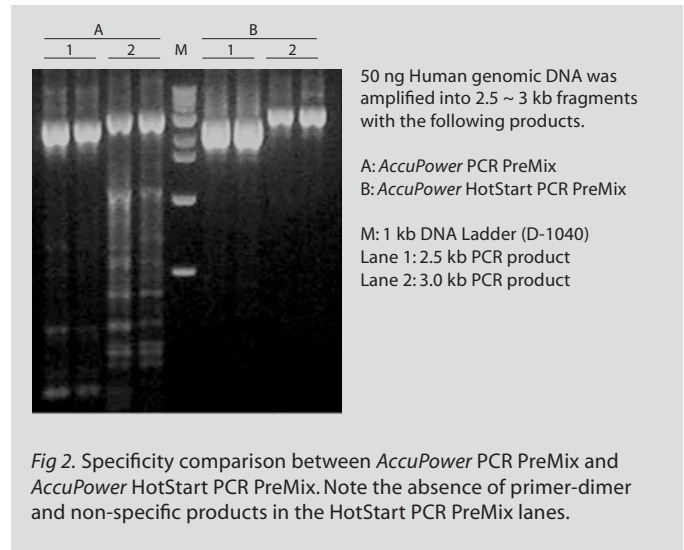


AccuPower® HotStart PCR PreMix

AccuPower HotStart PCR PreMix utilizes an exclusive enzyme-mediated HotStart method that, unlike most other HotStart chemistries, completely releases all polymerase activity during the first denaturation step. Top DNA polymerase is completely inhibited by pyrophosphate at temperatures below 70°C. However, at temperatures above 70°C, a thermostable pyrophosphatase initiates pyrophosphate hydrolysis and activates the DNA polymerase. This prevents the formation of non-specific products and primer-dimers during the reaction set-up process and results in improved PCR specificity.

Applications

- HotStart PCR up to 12 kb
- PCR with complex genomic templates/low copy templates cDNA
- Multiplex PCR reactions

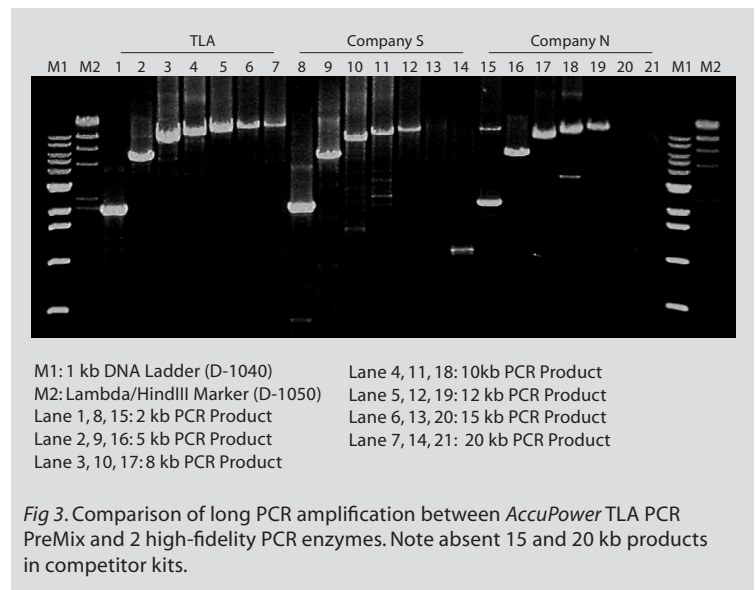


AccuPower® TLA PCR PreMix

AccuPower TLA DNA polymerase provides high fidelity and robust long range PCR capabilities. TLA DNA polymerase includes high fidelity proofreading like Pfu DNA polymerase, but TLA also features an enhanced processivity that makes it ideal for long range PCR.

Applications

- Gene synthesis
- PCR or primer extension requiring high fidelity (up to 30 kb)
- Blunt end PCR cloning
- Mutagenesis

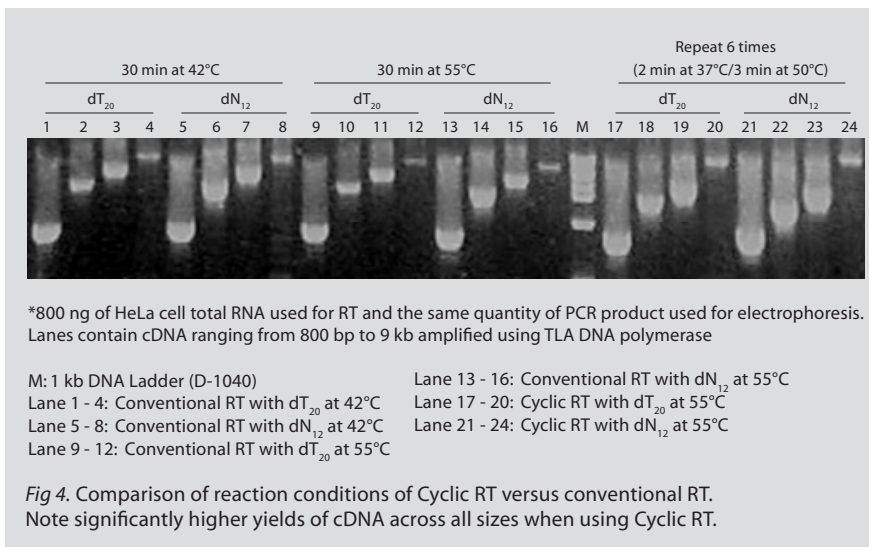


AccuPower® CycleScript RT PreMix (dT₂₀, dN₁₂, dN₆)

AccuPower CycleScript RT PreMix includes CycleScript Reverse Transcriptase, a poly dT or random primer (dT₂₀, dN₁₂, or dN₆), and all of the components for cDNA synthesis. CycleScript synthesizes cDNA from RNA with its high activity across a wide range of temperatures from 37 to 55°C. Reverse transcription can thus be carried out similar to PCR (Cyclic RT). The Cyclic RT reaction is composed of the following steps and is repeated to generate homogeneous cDNA: incubation at 15 to 40°C for primer annealing and extension; heating up to 45 to 48°C for extension (optional); and finally incubation at 50 to 55°C for denaturation of the secondary structure of the RNA. This kit can also be used for conventional reverse transcription.

Applications

- Gene synthesis
- First-strand cDNA synthesis from RNA, up to 9kb
- cDNA or RNA sequencing
- Random primer probe labeling
- cDNA library construction
- RT-PCR
- mRNA 5'-end mapping by primer extension

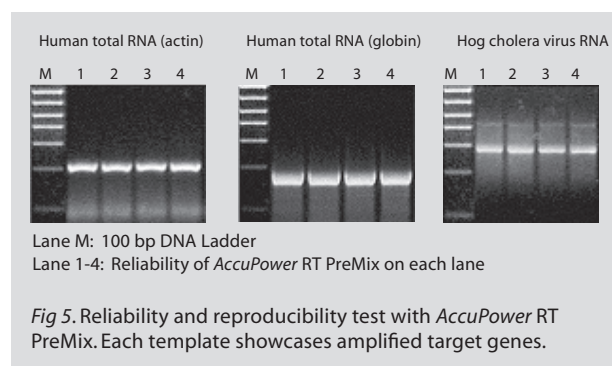


AccuPower® RT PreMix

AccuPower RT PreMix consists of an easy-to-resuspend, lyophilized mix of M-MLV Reverse Transcriptase, RNase inhibitor, dNTPs, reaction buffer, a tracking dye, and a stabilizer. The kit is used for first strand cDNA synthesis from RNA. All of the key components are provided at optimal concentrations. Simply add target RNA, primers and ddH₂O to start your reaction.

Applications

- First strand cDNA synthesis from RNA, up to 9 kb

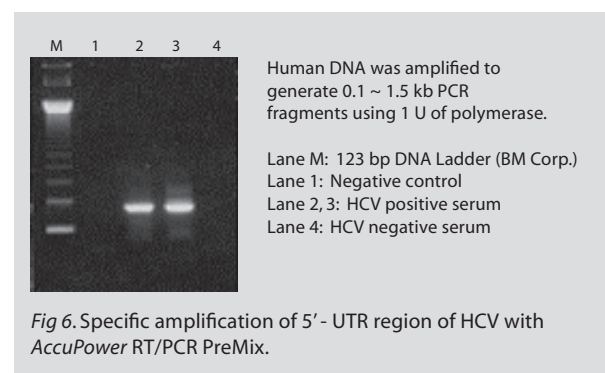


AccuPower® RT/PCR PreMix

AccuPower RT/PCR PreMix contains all the components necessary for sequential cDNA synthesis and amplification in one tube (one-step RT/PCR). The RT/PCR PreMix consists of both M-MLV Reverse Transcriptase, an RNA dependent DNA polymerase, and a thermostable DNA polymerase in a lyophilized mix of dNTPs, reaction buffer, RNase inhibitor, a tracking dye, and a stabilizer.

Applications

- cDNA synthesis followed by PCR—products up to 6 kb



Choose the AccuPower right for you:

	Application	PCR PreMix	TLA PCR PreMix	HotStart PCR PreMix	RT PreMix	CycleScript RT PreMix	RT/PCR PreMix
DNA	PCR	Standard PCR	×	×			
		Hotstart PCR		×			
		High-fidelity PCR	×				
		Long range PCR	×				
		GC rich PCR		×			
		Quantitative PCR					
RNA	RT	Standard RT			×	×	
		Cyclic RT				×	
	RT/PCR	Standard RT/PCR					×

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Create your own PreMix with custom AccuPower

AccuPower is a premix unlike any other and Bioneer is an oligo synthesis company unlike any other. For the ultimate in convenience and time savings, Bioneer will include your primers in the AccuPower PreMix best-suited to your application; all you need to do is add template! All the benefits of AccuPower are amplified when Bioneer adds your specific primers to your PreMix.

AccuPower + Your Primers = unique combinations, and....

- Even less set-up time
- No stock solutions, solves contamination problems

Create your very own PCR, Reverse Transcription and RT/PCR kit, customized to your specific application and throughput requirements. To learn more about AccuPower Custom PreMix, please contact us:

support@bioneer.us.com

Ordering Information

Products	Cat. No.
AccuPower PCR PreMix, 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 96 tubes	K-2012
AccuPower PCR PreMix, 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 480 tubes	K-2016
AccuPower PCR PreMix, 20 ul, thin-wall 96-well flat plate / 1 ea	K-2260-4
AccuPower HotStart PCR PreMix, 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 96 tubes	K-5050
AccuPower HotStart PCR PreMix, 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 480 tubes	K-5051
AccuPower TLA PCR PreMix, 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 96 tubes	K-3201
AccuPower TLA PCR PreMix, 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 480 tubes	K-3203
AccuPower CycleScript RT PreMix (dT20), 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 96 tubes	K-2044
AccuPower CycleScript RT PreMix (dN12), 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 96 tubes	K-2045
AccuPower CycleScript RT PreMix (dN6), 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 96 tubes	K-2046
AccuPower RT PreMix, 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 96 tubes	K-2041
AccuPower RT/PCR PreMix, 20 ul, 0.2 ml thin-wall 8-strip tubes with attached caps / 96 tubes	K-2055

CONTACT

Takapouzist Co.
Tehran, Iran.
Tel : (+98-21) 43 90 8000

Email : info@takapouzist.com

BIONEER CORPORATION
49-3 Munpyeong - dong, Daedeok - gu
Daejeon 306 - 220 South Korea
Phone: 82-42-930-8777
Fax : 82-42-930-8688

www.bioneer.com

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