

Bioneer
Healthier Future for
Humanity with
Genomic Technology

AccuPower® GreenStar™ qPCR PreMix

The Real-Time PCR Reagents for the SYBR®
Green-Based Detection

- **Specificity**

GreenStar™ qPCR PreMix provides more accurate Real-Time PCR result by application of Pyro - HotStart method that use thermostable pyrophosphatase and pyrophosphate(PPi).

- **Stability**

The chemical stabilizer maintains enzyme activity for 2 years at -20°C.

- **Simplicity**

Ready to use, *AccuPower® GreenStar™* qPCR PreMix contains everything of Real-Time PCR excluding primer and template.

- **Reproducibility**

Errors that may occur during multiple pipetting to make reaction mixture are now completely eliminated via premixed format.

The product allows accurate and highly reproducible qPCR results since every batch production is checked through strict Q.C. procedure.

Descriptions

The *AccuPower® GreenStar™* qPCR PreMix is a single-tube lyophilized PreMix including SYBR® Green I dye, HotStart DNA polymerase, thermostable pyrophosphatase and pyrophosphate (PPi) which provide Pyro - HotStart PCR reaction (patent 292883 & 10-2007-109055).

The *GreenStar™* qPCR PreMix provides significant reduction of nonspecific reaction, high sensitivity, extended stability and great universality.

Just additions of primers of your interesting target gene into *GreenStar™* qPCR PreMix provide always reproducible results with convenience of use.

Applications

- Real-Time Quantification of DNA/cDNA targets
- Quantification of gene expression
- Microbial/Viral Pathogen Detection

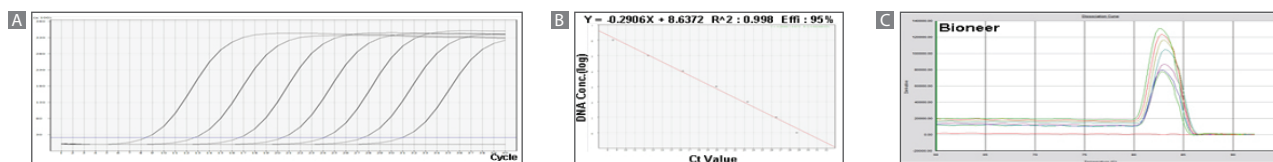


Figure 1: Real-Time PCR Data of AccuPower® GreenStar™ qPCR PreMix

AccuPower® GreenStar™ qPCR PreMix provides at least 7 orders of magnitude in dynamic range (10 fg ~ 10 ng /reaction).

A: Amplification curve. Lambda DNA primers were added into GreenStar™ qPCR PreMix. A series of Lambda DNA positive control diluents were tested.

B: Standard curve. Data were obtained using Exicycler™ 96 Real-Time Quantitative Thermal Block (Bioneer Co.).

C: Melting curve.

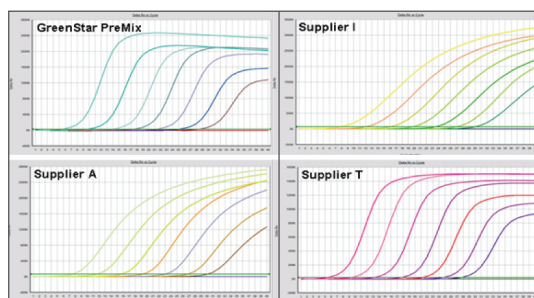


Figure 2: Comparison of amplification quality between AccuPower® GreenStar™ qPCR PreMix and other supplier's master mixture.

Amplification & Standard curve of AccuPower® GreenStar™ qPCR PreMix and other supplier's master mixture.

Lambda DNA primers were added into AccuPower® GreenStar™ qPCR PreMix and other supplier's master mixture.

A series of Lambda DNA positive control diluents were tested.

Reaction mixtures were prepared and qPCR was performed according to each supplier's protocol.

All data were obtained using ABI 7500 Fast Real-Time PCR machine (Applied Biosystems co.).

Order Information

Cat. No.	Product Description	Type	Reaction Volume
K-6210	AccuPower® GreenStar™ qPCR PreMix, Exicycler™ 96, 8-well strip, 20 µl reaction, 12 strips (96 tests)/pkg	Tube	20 µl
K-6211	AccuPower® GreenStar™ qPCR PreMix, ABI 7500 ^a , 8-well strip, 20 µl reaction, 12 strips (96 tests)/pkg	Tube	20 µl
K-6212	AccuPower® GreenStar™ qPCR PreMix, Opticon ^c , 8-well strip with cap, 20 µl reaction, 12 strips (96 tests)/pkg	Tube	20 µl
K-6200	AccuPower® GreenStar™ qPCR PreMix, Exicycler™ 96, 50 µl reaction, 12 strips (96 tests)/pkg	Tube	50 µl
K-6201	AccuPower® GreenStar™ qPCR PreMix, ABI 7500 ^a , 50 µl reaction, 12 strips (96 tests)/pkg	Tube	50 µl
K-6202	AccuPower® GreenStar™ qPCR PreMix, Opticon ^c , 50 µl reaction, 12 strips (96 tests)/pkg	Tube	50 µl
K-6213	AccuPower® GreenStar™ qPCR PreMix, Exicycler™ 96, 96-well plate, 20 µl reaction, 1 plate (96 tests)/pkg	96 well plate	20 µl
K-6214	AccuPower® GreenStar™ qPCR PreMix, ABI 7500 ^b , 96-well plate, 20 µl reaction, 1 plate (96 tests)/pkg	96 well plate	20 µl
K-6203	AccuPower® GreenStar™ qPCR PreMix, Exicycler™ 96, 96-well plate, 50 µl reaction, 1 plate (96 tests)/pkg	96 well plate	50 µl
K-6204	AccuPower® GreenStar™ qPCR PreMix, ABI 7500 ^b , 96-well plate, 50 µl reaction, 1 plate (96 tests)/pkg	96 well plate	50 µl

^a: also available on the ABI 7000, 7300, 7500 Fast or 7900HT

^b: also available on the ABI 7000, 7300 or 7500 Fast

^c: also available on the iCycler or IQ5

*This product may not be available in some countries.

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