

Bioneer

Healthier Future for
Humanity with
Genomic Technology

AccuPower® DualStar™ qPCR PreMix

The Real-Time PCR Reagents for the Sequence-specific
Probe-Based Detection

- **User Convenience**

Just add probe and primer for target gene.

- **Extended Stability**

In a freezer, the activity of this product is stable for 2 years.

- **High Specificity**

A Non-specific reaction by Pyro - HotStart method was dramatically eliminated (patent 292883 & 10-2007-109055).

- **Reproducibility**

Margin of error was minimized and reproducible results can be obtained, because no extra mixing step is required.

- **Equipment Compatibility**

Optimized results on various Real-Time PCR instruments can be obtained.

- **Universality of target gene**

Significant results can be obtained regardless of kinds of target genes.

Descriptions

The *AccuPower® DualStar™* qPCR PreMix is a ready-to use format including *Tfi* DNA polymerase, thermostable pyrophosphatase, and pyrophosphatase (PPi) which provide Pyro - HotStart PCR reaction (patent 292883 & 10-2007-109055).

The *DualStar™* qPCR PreMix provides significant reduction of nonspecific reaction, high sensitivity, extended stability and great universality. Just additions of primers and fluorescent dye labeled probe of your interesting target gene into *DualStar™* qPCR PreMix provide always reproducible results with convenience of use.

Applications

- Quantification of gene expression
- Microbial detection
- Evaluation of primer pair performance for probe-based Real-Time PCR
- Target DNA quantification
- Viral/bacterial pathogen load determination

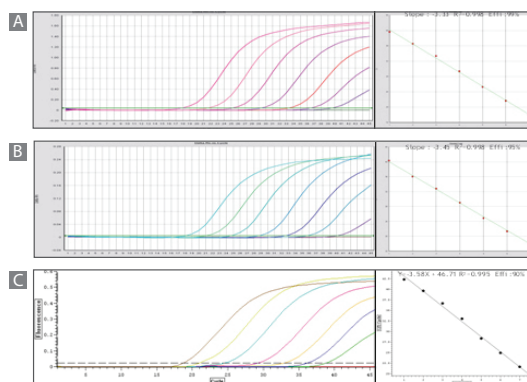


Figure 1: Data using various kinds of Real-Time PCR Instruments (ABI 7500 Fast, Opticon Real-Time PCR instruments)

AccuPower® DualStar™ qPCR PreMix is applicable to most of commercially available Real-Time quantitative PCR instruments. West Nile Virus (WNV) primers and TaqMan® - based probe were added into DualStar™ qPCR PreMix. A series of WNV positive control diluents were tested.

A: Amplification curve and standard curve using ABI 7500 Fast Real-Time PCR machine (Applied Biosystems Co.).

B: Amplification curve and standard curve using ABI 7500 Fast Real-Time PCR machine standard mode (Applied Biosystems Co.).

C: Amplification curve and standard curve using DNA Engine Opticon® Real-Time PCR machine (MJ Research, currently Bio-Rad Inc.).

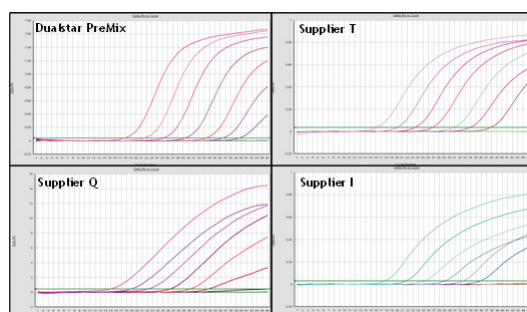


Figure 2: Comparison of detection sensitivity between DualStar™ qPCR PreMix and other supplier's master mixture.

Amplification curve of AccuPower® DualStar™ qPCR PreMix and other supplier's master mixture. West Nile Virus (WNV) primers and TaqMan® - based probe were added into DualStar™ qPCR PreMix and other supplier's master mixture. A series of WNV 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-6100	AccuPower® DualStar™ qPCR PreMix, Exicycler™ 96, 8-well strip, 20 µl reaction, 12 strips (96 tests)/pkg	Tube	20 µl
K-6101	AccuPower® DualStar™ qPCR PreMix, ABI 7500 ^a , 8-well strip, 20 µl reaction, 12 strips (96 tests)/pkg	Tube	20 µl
K-6102	AccuPower® DualStar™ qPCR PreMix, Opticon ^c , 8-well strip with cap, 20 µl reaction, 12 strips (96 tests)/pkg	Tube	20 µl
K-6110	AccuPower® DualStar™ qPCR PreMix, Exicycler™ 96, 8-well strip, 50 µl reaction, 12 strips (96 tests)/pkg	Tube	50 µl
K-6111	AccuPower® DualStar™ qPCR PreMix, ABI 7500 ^a , 8-well strip, 50 µl reaction, 12 strips (96 tests)/pkg	Tube	50 µl
K-6112	AccuPower® DualStar™ qPCR PreMix, Opticon ^c , 8-well strip with cap, 50 µl reaction, 12 strips (96 tests)/pkg	Tube	50 µl
K-6103	AccuPower® DualStar™ qPCR PreMix, Exicycler™ 96, 96-well plate, 20 µl reaction, 1 plate (96 tests)/pkg	96 well plate	20 µl
K-6104	AccuPower® DualStar™ qPCR PreMix, ABI 7500 ^b , 96-well plate, 20 µl reaction, 1 plate (96 tests)/pkg	96 well plate	20 µl
K-6113	AccuPower® DualStar™ qPCR PreMix, Exicycler™ 96, 96-well plate, 50 µl reaction, 1 plate (96 tests)/pkg	96 well plate	50 µl
K-6114	AccuPower® DualStar™ 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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