

SensiFAST™

EXCEED THE LIMIT

SensiFAST™ is a comprehensive range of highly optimized qPCR mixes engineered for industry-leading performance in real-time PCR experiments with both DNA and RNA templates. SensiFAST™ provides reliable and highly reproducible data on all commonly used real-time PCR instruments and are ideal for the new generation of fast-cyclers.

- Unmatched sensitivity - earliest Ct detection
- Perfect for hard to obtain and low copy number samples
- High performance - ideal for genotyping, multiplexing and gene expression analysis
- Fast protocols - use with the new generation of fast cyclers

We utilize the latest developments in real-time PCR to deliver the fastest cycling times and greatest sensitivity, without compromising accuracy, reproducibility or performance.

THE COMPONENTS

- Antibody-mediated hot-start DNA polymerase system: prevents non-specific amplification.
- Ultra-pure dNTPs: validated in qPCR
- The latest advances in buffer chemistry and enhancers for greatest sensitivity and speed.
- Choice of passive references: for optional normalization of well-to-well variation in some machines.
- Each mix is extensively quality-controlled to ensure consistency and purity.

FEATURES AND APPLICATIONS OF OUR MIXES

- **Powered by Bioline's proprietary highly optimized antibody hot-start PCR enzyme** to eliminate primer-dimer formation and non-specific amplification, essential when quantifying low copy number targets and reducing background to a minimum.
- **Extremely fast protocols** - formulations facilitate very rapid enzyme-extension rates, enabling fast cycling conditions to be used without compromising PCR efficiency, making it ideal for the new generation of fast-cyclers.
- **Flexible:** formulations have been developed for a variety of DNA and RNA templates including cDNA, poly(A) RNA, total RNA and genomic templates.
- **Reliable:** all reagents are rigorously quality-controlled to minimize batch-to-batch variation and tested to ensure the absence of contamination.
- **Applications:** copy number variation, microRNA analysis, microarray verification, oncology, pathogen detection, quality control and assay validation, gene expression studies, single cell analysis, siRNA/RNAi experiments, SNP genotyping, viral quantification.

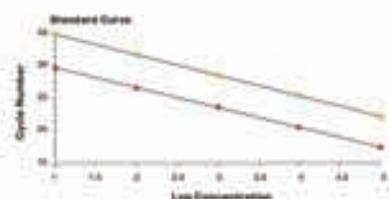
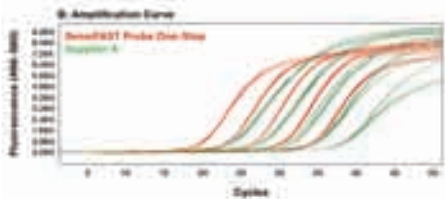
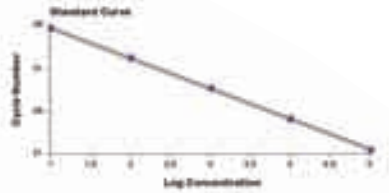
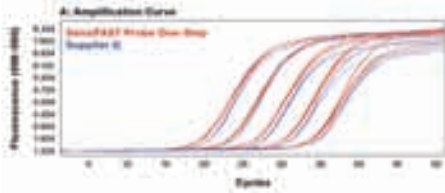


SensiFAST™ is a trademark of Bioline Reagents Ltd.

ISO 9001:2008 | Quality System Regulations - 21 CFR 820 | cGMP - 21 CFR 210, 211

SensiFAST PERFORMANCE

Comparison of SensiFAST Probe One-Step (red line) against leading suppliers using fast cycling conditions. - Mouse β -actin amplified in triplicate using gene specific primers and TaqMan probe according to each manufacturer's protocol, from 10-fold serial dilution of total RNA with both SensiFAST Probe One-Step (red) and competitor mix A (green). The conditions were 45°C for 10min followed by 95°C for 2min and 50 cycles of 95°C 10s, 60°C 20s. The results illustrate A) that the SensiFAST Probe One-Step Kit is faster and as sensitive as supplier Q, and B) four Cts (more than 10 fold) more sensitive than supplier A.



Comparison of SensiFAST Probe No-ROX in a singleplex and quadruplex reaction - A 10-fold serial dilution of human cDNA was amplified with four different probes, both in singleplex reactions (blue line) and a quadruplex reaction (red line) (the results displayed are for the g-actin and JOE dye). Five replicates were run using a conventional TaqMan primer/probe set under fast cycling conditions (3 min 95°C followed by 45 cycles 95°C 10s, 60°C 10s). The results illustrate that SensiFAST Probe No-ROX had high sensitivity, excellent reproducibility and Ct values for both the singleplex and multiplex reactions (A) and no reduction of efficiency (B) that is often associated with multiplexing.

