qPCRBIO **SyGreen Blue Mix**

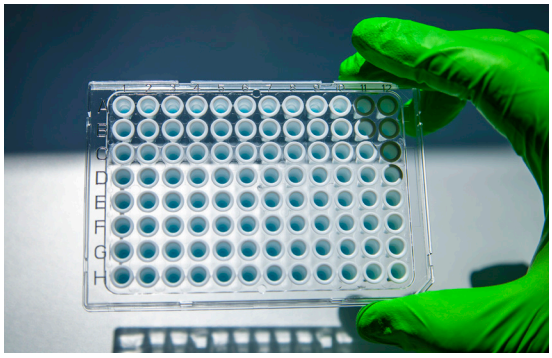
- Easy sample visualisation
- Superior low copy number detection
- Standard and fast cycling

Features

- Non-reactive blue dye for easy visualisation during pipetting
- Non-PCR inhibiting intercalating dye
- Rapid extension rate for early Ct values
- Market-leading sensitivity - increased limit of detection
- Compatible on all real-time PCR platforms - standard and fast cycling conditions

Applications

- Absolute quantification
- Relative gene expression analysis
- High-throughput qPCR from genomic, cDNA and viral sequences
- Low copy number target genes
- Specific amplification from complex templates (eg GC/AT rich)
- Crude sample PCR



qPCRBIO SyGreen Blue Mix uses a non-reactive blue dye for easy sample visualisation during reaction setup. Together with advanced enzyme, hot start and reaction buffer technology, we offer market-leading sensitivity and reproducibility with enhanced pipetting accuracy.

qPCRBIO SyGreen Blue Mix can be used to quantify any DNA template including genomic, cDNA and viral sequences. Extremely low copy number targets can be detected specifically and with high efficiency. Antibody-mediated hot start technology prevents the formation of primer dimers and non-specific products leading to improved reaction sensitivity and specificity.

The mix contains a proprietary intercalating dye that does not inhibit PCR, unlike other popular fluorescent dyes. Combining the latest developments in polymerase technology and advanced buffer chemistry we offer market-leading performance with minimal or no optimisation.

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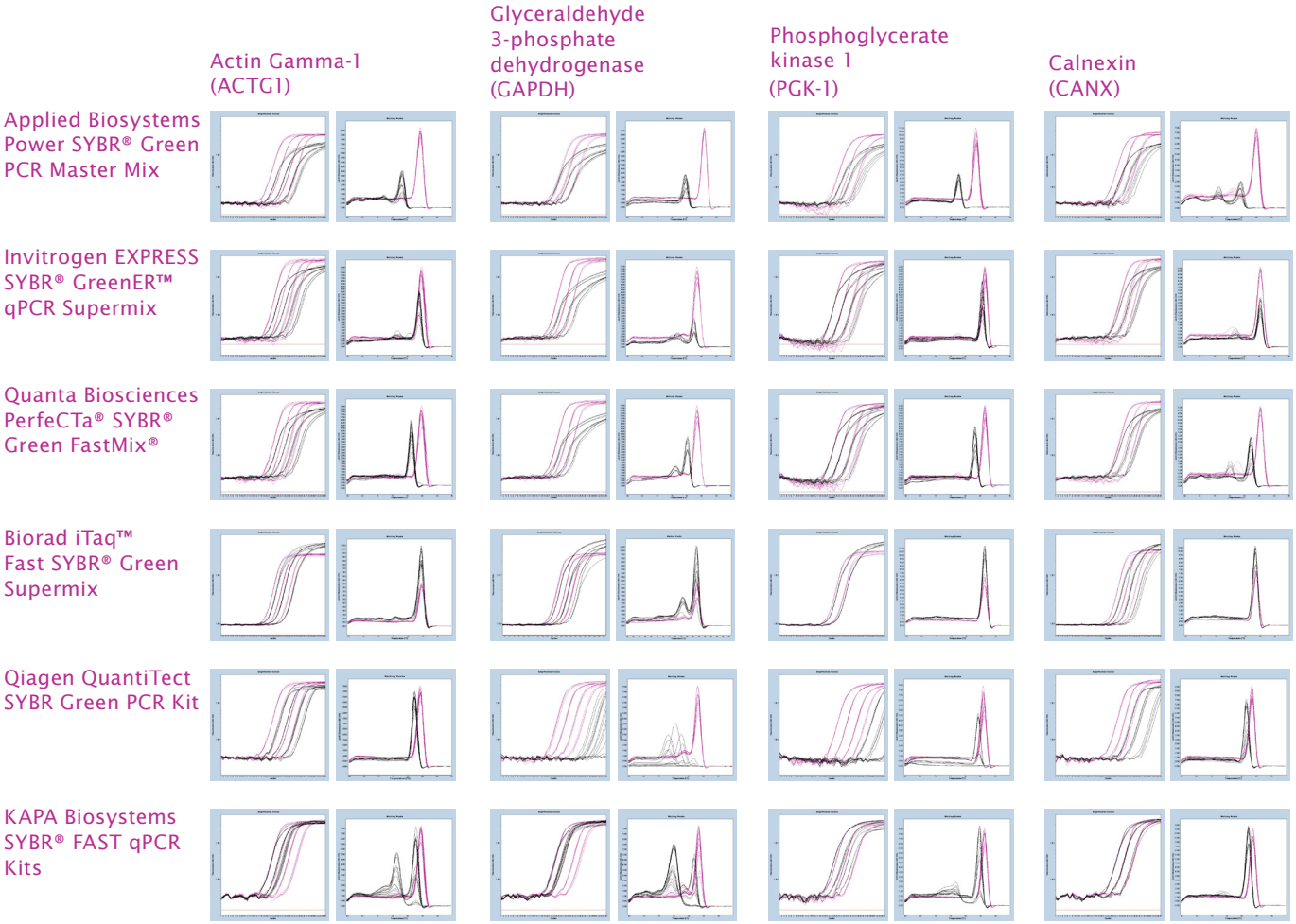

Figure 1.

Black trace = Competitor Mix
Purple trace = qPCRBIO SyGreen Blue Mix

Shows amplification and melt traces of 4 mouse house keeping genes from a cDNA dilution series. qPCRBIO SyGreen Blue Mix traces (purple) and 6 competitor mixes (black). Cycling conditions were 95˚C 2min, 40 cycles of 95˚C 10sec, 60˚C 15sec on Roche LC480. For ACTG1 amplicon qPCRBIO mix was 2 to 4 Ct values earlier than 5 of 6 competitor mixes. The Ct was equal to that of Kapa Biosystems. The sensitivity of qPCRBIO mix was equal to 5 of 6 competitor mixes, but superior to Kapa Biosystems, demonstrated by absence of primer dimer at low template concentrations. For GAPDH amplicon qPCRBIO mix was 1 to 3 Ct values earlier for 4 of 6 competitor mixes and equal to 2 mixes. The sensitivity of qPCRBIO mix was superior to 4 of 5 competitor mixes, demonstrated by absence of primer dimer. Applied Biosystems mix showed equal sensitivity for this amplicon. For PGK amplicon qPCRBIO mix had Ct values equal or lower than 5 of 6 competitor mixes. Sensitivity was equal to 4 mixes and superior to 2 mixes. For CANX amplicon Ct values were 1 to 6 lower than 5 of 6 competitor mixes and equal to Kapa Biosystems mix. Sensitivity was superior to 3 of 6 mixes and equal to the other 3 mixes.

Overall, qPCRBIO SyGreen Blue Mix outperformed each competitor mix on the 4 amplicons tested.

Catalogue Number	Product Name	Pack Size	Presentation
PB20.15-01	qPCRBIO SyGreen Blue Mix Lo-ROX	100 x 20µl rxns	1 x 1ml
PB20.15-05		500 x 20µl rxns	5 x 1ml
PB20.15-20		2000 x 20µl rxns	20 x 1ml
PB20.16-01	qPCRBIO SyGreen Blue Mix Hi-ROX	100 x 20µl rxns	1 x 1ml
PB20.16-05		500 x 20µl rxns	5 x 1ml
PB20.16-20		2000 x 20µl rxns	20 x 1ml
PB20.17-01	qPCRBIO SyGreen Blue Mix Separate-ROX	100 x 20µl rxns	[1 x 1ml mix] & [1 x 200µl ROX]
PB20.17-05		500 x 20µl rxns	[5 x 1ml mix] & [1 x 200µl ROX]
PB20.17-20		2000 x 20µl rxns	[20 x 1ml mix] & [4 x 200µl ROX]

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