DyNAmo ColorFlash Probe qPCR Kit

MM

www.thermoscientific.com/qpcrsolutions

Ordering Information

DyNAmo ColorFlash Probe qPCR Kit	
F-456S	100 x 20 µl rxns or 40 x 50 µl rxns
F-456L	500 x 20 µl rxns or 200 x 50 µl rxns
F-456XL	2500 x 20 µl rxns or 1000 x 50 µl rxns

Store -20°C. When using the 2x master mix, the leftover thawed mix can be refrozen and stored at -20°C without affecting the performance of the kit. The yellow sample buffer solution is stable and can be stored at +4°C, but storage at -20°C with the other kit components is recommended.

Description

Thermo Scientific DyNAmo ColorFlash Probe qPCR Kit offers equal performance to the DyNAmo Flash Probe kit (▸See p. 47). In addition, it incorporates an innovative multicolor system that ensures correct pipetting. The 2x master mix contains a blue dye, and a separate sample buffer contains a yellow dye. The qPCR reaction mix containing both components is green. Using this patent-pending multicolor system, pipetting of both the master mix and the sample can be easily monitored. This significantly decreases the risk for pipetting errors during reaction set up, especially when using white reaction vessels. The dyes do not affect the specificity or sensitivity of qPCR assays.

DyNAmo Color Flash Probe qPCR Kit provides optimal performance on most real-time thermal cyclers (▸See p. 40-41 for compatibility).

Benefits

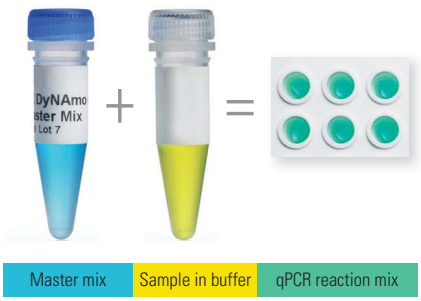
- Minimized risk of pipetting errors during reaction set up
- Especially beneficial when using white reaction vessels
- Extremely fast protocols due to combined annealing and extension step of only 15 s
- Specific and sensitive detection of a wide range of template concentrations
- dUTP included in the 2x master mix allows the use of UNG for prevention of carry-over contamination

Applications

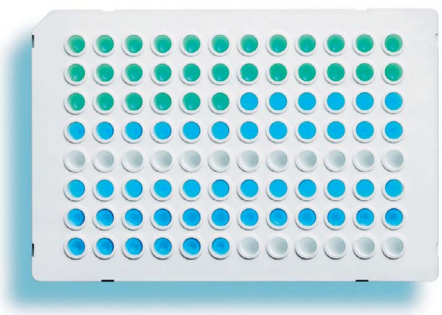
- Fast qPCR
- qPCR using sequence-specific probes
- RT-qPCR using sequence-specific probes

Product contents

2x master mix with blue dye (contains hot start version of a modified *Tbr* DNA polymerase, optimized PCR buffer, $MgCl_2$, dNTP mix including dUTP), 40x yellow sample buffer solution with yellow dye and 50x ROX passive reference dye.



Blue + yellow = green
DyNAmo ColorFlash qPCR Kits contain 2x master mix supplemented with a blue dye. The yellow 40x sample buffer is included as a separate vial. This buffer can be mixed with the samples to provide visual aid when pipetting.



Assists reaction set up with clear and white plates
White reaction vessels are especially good for qPCR applications as they deliver higher signal intensities than clear vessels. However, traditional colorless reaction components are poorly visible in white wells, making reaction set up more difficult. DyNAmo ColorFlash qPCR Kits overcome this difficulty and decrease the risk of pipetting errors. In the image, the blue wells contain only the 2x master mix. The green color indicates that the sample DNA with yellow color has also been added into the reaction.

Related products

DyNAmo Flash Probe qPCR Kit
▸See p. 47

Maxima First Strand cDNA Synthesis Kit
▸See p. 59

Oligo(dT)$_{18}$ Primer
▸See p. 76

Random Hexamer Primer
▸See p. 76

E Enzyme MM Master Mix

NEW

DyNAmo ColorFlash SYBR Green qPCR Kit

MM

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Ordering Information

DyNAmo ColorFlash SYBR Green qPCR Kit	
F-416S	100 x 20 µl rxns or 40 x 50 µl rxns
F-416L	500 x 20 µl rxns or 200 x 50 µl rxns
F-416XL	2500 x 20 µl rxns or 1000 x 50 µl rxns

Store -20°C. When using the 2x master mix, the leftover thawed mix can be refrozen and stored at -20°C without affecting the performance of the kit. The yellow sample buffer solution is stable and can be stored at +4°C, but storage at -20°C with the other kit components is recommended.

Related products

DyNAmo Flash SYBR Green qPCR Kit
▸See p. 51

Maxima Reverse Transcriptase
▸See p. 58

Maxima First Strand cDNA Synthesis Kit
▸See p. 59

Oligo(dT)$_{18}$ Primer
▸See p. 76

Random Hexamer Primer
▸See p. 76

Description

Thermo Scientific DyNAmo ColorFlash SYBR Green qPCR Kit offers equal performance to the DyNAmo Flash SYBR Green qPCR kit (▸See p. 51). In addition, it incorporates an innovative multi-color system that ensures correct pipetting. The 2x master mix contains a blue dye, and a separate sample buffer contains a yellow dye. The qPCR reaction mix containing both components is green. Using this patent-pending multicolor system, pipetting of both the master mix and the sample can be easily monitored. This significantly decreases the risk for pipetting errors during reaction setup, especially when using white reaction vessels. The dyes do not affect the specificity or sensitivity of qPCR assays.

DyNAmo ColorFlash SYBR Green qPCR Kit provides optimal performance on most real-time thermal cyclers (▸See p. 40-41 for compatibility).

Benefits

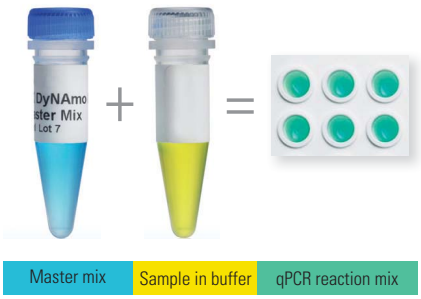
- Minimized risk of pipetting errors during reaction set up
- Especially beneficial when using white reaction vessels
- Extremely fast protocols due to combined annealing and extension step of only 15 s
- Specific and sensitive detection of a wide range of template concentrations
- dUTP included in the 2x master mix allows the use of UNG for prevention of carry-over contamination

Applications

- Fast qPCR
- qPCR using SYBR Green dye
- RT-qPCR using SYBR Green dye

Product contents

2x master mix with blue dye (contains hot start version of a modified *Tbr* DNA polymerase, SYBR Green I, optimized PCR buffer, $MgCl_2$, dNTP mix including dUTP), 40x sample buffer solution with yellow dye and 50x ROX passive reference dye.



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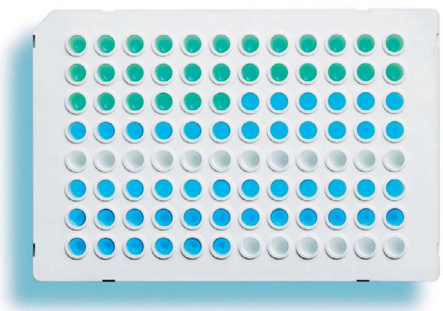

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