



EliZyme™ Super HRM MIX

Intended use:

For Research Use Only. Not for use in diagnostic procedures.

Storage:

Upon arrival store components at -20 °C. Avoid prolonged exposure to light. When stored under these conditions, the kit will retain full activity until the expiration date indicated on the kit label. Reagents may be stored at 4 °C up to 1 month.

Product description

The EliZyme™ Super HRM MIX is a combination of our highly pure Taq polymerase with dNTPs and MgCl₂. It uses the proprietary third-generation DNA-intercalating dye, which significantly reduces PCR inhibition. This new qPCR mastermix provides superior performance and accurately discriminates SNPs and quantifies methylation differences.

EliZyme™ Super HRM MIX relies on ultra-pure Taq polymerase, which is purified using a 12-step purification process that eliminates host DNA contamination and enhances reaction sensitivity and specificity.

Our high-throughput smart-screen technology has resulted in a buffer system that enables efficient amplification of GC-rich and AT-rich templates under both fast and standard cycling conditions. The EliZyme™ Super HRM MIX is highly sensitive and it can be utilized in in HRM analysis for detecting mutations, polymorphisms, and epigenetic variations in double-stranded DNA.

Content

| | Ref. No. | Content | Size |
|------------------------|----------|---------------|-----------|
| EliZyme™ Super HRM MIX | EZ1501 | 1×0.5 ml mix | 100 rxns |
| | EZ1505 | 2×1.25 ml mix | 500 rxns |
| | EZ1514 | 1×7 ml mix | 1400 rxns |

Primers

Primers should have a predicted melting temperature of around 60 °C. The shorter the amplicon length, the faster the reaction can be cycled. The recommended amplicon length should be between 80 bp and 200 bp. Amplicon length should not exceed 400 bp.

Reaction setup

After thawing, briefly vortex the mix and shortly spin.



| Reagent | 20 µl reaction | Final conc. |
|------------------------|-------------------------------------|-------------|
| 2X EliZyme™ SH Mix | 5 µl | 1× |
| Forward primer (10 µM) | 0.8 µl | 400 nM |
| Reverse primer (10 µM) | 0.8 µl | 400 nM |
| Template DNA | < 10 ng cDNA, 0.5-50 ng genomic DNA | Variable |
| PCR grade water | Up to 20 µl | |

PCR cycling profile

Acquire data on the SYBR® Green or FAM channel.

| Step | Temperature | Time | Cycles |
|----------------------|--------------|--------------|--------|
| Initial denaturation | 95 °C | 2 – 3 min* | 1 |
| Denaturation | 95 °C | 5 s | 40 |
| Annealing/Extension | 60 – 65 °C** | 20 – 30 s*** | |
| HRM analysis**** | | | |

*2 min for cDNA, 3 min for genomic DNA.

** Do not use temperatures below 60 °C.

*** Do not exceed 30 s.

**** Optional.

Manufacturer:

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Catalog number



Upper limit of temperature



Batch code



Manufacturer



Use by (last day of month)



Contains sufficient "N" tests