



EliZyme™ Probe 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

EliZyme™ Probe MIX is a product that has been designed for use with various probe-based qPCR assays such as Taqman®, molecular beacons, and Scorpions® probes. This mix is ideal for multiplex assays or genotyping experiments and offers excellent performance with minimal optimization required. EliZyme™ Probe MIX is able to efficiently amplify GC-rich and AT-rich templates, while avoiding issues such as primer-dimer formation and non-specific amplification through the use of inhibitor technology. Additionally, this product is compatible with all qPCR platforms, and can be used under standard and fast cycling conditions. For added convenience, the mix does not contain ROX, which can be obtained separately and can be added as needed. EliZyme™ Probe MIX is also available in a version called EliZyme™ Probe Blue MIX, which includes a non-reactive blue dye for easy visualization during pipetting.

Content

	Ref. No.	Content	Size
EliZyme™ Probe MIX	EZ4701	1×1 ml mix	100 rxns
	EZ4705	5×1 ml mix	500 rxns
	EZ4714	2×7 ml mix	1400 rxns
EliZyme™ Probe Blue MIX	EZ0201	1×1 ml mix	100 rxns
	EZ0205	5×1 ml mix	500 rxns
	EZ0214	2×7 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. For TaqMan® probes choose probe close to 5' primer, avoid terminal guanosine residues.



Reaction setup

EliZyme™ Probe Blue MIX will necessarily lower the fluorescent intensity from probes by absorbing light at both the excitation and emission wavelengths (FAM - 12%; HEX - 55%; Texas Red - 88%; Cy5 - 82%). However, the recommended probe concentration of 200nM has proven sufficient for detection on all instruments tested. If signal intensity is a concern, consider switching to EliZyme™ Probe MIX without dye.

After thawing, briefly vortex the mix and shortly spin.

Reagent	20 µl reaction	Final conc.
2X EliZyme™ Probe Mix	10 µl	1×
2X EliZyme™ Probe Blue Mix		
Forward primer (10 µM)	0.8 µl	400 nM
Reverse primer (10 µM)	0.8 µl	400 nM
Probe (10 µM)	0.4 µl	200 nM
Template DNA	< 100 ng cDNA, < 1 µg genomic DNA	Variable
PCR grade water	Up to 20 µl	

PCR cycling profile

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***	
Melt curve analysis****			

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

** Do not use temperatures below 60 °C.

*** Do not exceed 30 s.

****Optional, for hybridization probes only.

Manufacturer:

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Catalog number



Batch code



Use by (last day of month)



Upper limit of temperature



Manufacturer



Contains sufficient for "N"