

ICEme Kit PIK3CA Panel Components

The ICEme Kit PIK3CA Panel contains the components to perform ICE COLD-PCR amplification for mutation enrichment as well as single direction Sanger sequencing for 29 total samples with controls for PIK3A exon 9, and PIK3CA Exon 20. Recommended storage conditions are listed in [Table 1](#).

Table 1: Kit components with recommended storage conditions.

Reagent, ICE COLD-PCR	Lid Color	Color of Label	Volume Total (µL)	Storage (°C)
Primers/RS-Oligo Mix	Clear	Blue	180	-20
2X Polymerase Master Mix	Clear	Green	900	-20
Wild Type Control	Clear	White	18	-20
1% H1047R Control	Clear	Red	18	-20
1% E545K Control	Clear	Red	18	-20
Reagent	Lid Color	Color of Label	Volume Total (µL)	Storage (°C)
Sanger Sequencing Primer, 10 µM	Clear	Orange	40	-20

The kit contains enough reagents to perform 32 total analyses. For optimal usage of the kit, it is suggested that 29 samples are run per batch along with one set of controls.

This kit was designed specifically to detect the following mutations:

1. PIK3CA Exon 9:
 - a. c.1633G>A; p.E545K
 - b. c.1624G>A; p.E542K
 - c. c.1634A>G; p.E545G
2. PIK3CA Exon 20:
 - a. c.3140A>G; p.H1047R
 - b. c.3140A>T; p.H1047L

Reagents Required but not Supplied

1. Molecular Biology Grade Water: Thermo Fisher Catalog # AM9937

Optional Reagents not Supplied

1. PIK3CA Exon 9 E545G Mutation Control: Crown Bioscience Catalog # C6055G
2. PIK3CA Exon 9 E542K Mutation Control: Crown Bioscience Catalog # C6053G or Horizon Discovery Catalog # HD688
3. PIK3CA Exon 20 H1047L Mutation Control: Crown Bioscience Catalog # C6052G