

Welcome to the future in PCR preparation.

RoomTemp-PCR with High Specificity

Each bag contains 24 reaction tubes (three strips) of **room temperature stable PCR with High Specificity**.

### Description

RoomTemp-PCR with High Specificity consists of ready-to-use strips of single-use 0.2ml thin walled PCR reaction tubes, preloaded with a premier quality PCR master mix in a dry stable format. RoomTemp-PCR with High Specificity is optimized to provide minimal by-product formations with greater specificity.

### Kit Components

DNA polymerase, dNTP mix, reaction buffer, magnesium chloride and gel loading dye. The specially formulated reaction buffer contains Tris-HCl pH 8.3 (25°C), KCl, special stabilizers and 1.5 mM MgCl<sub>2</sub>.

### Enzyme Specifications

Our DNA polymerase is a premium quality, ultra pure, recombinant DNA polymerase obtained by high level expression of the Taq DNA polymerase gene in E coli. The enzyme replicates DNA at 72°C. In the presence of the buffer solution, it catalyzes the polymerization of nucleotides into duplex DNA in 5' to 3' direction. It also has 5' to 3' polymerization-dependent exonuclease replacement activity but lacks 3' to 5' exonuclease activity.

### Benefits

- Store at your bench and use at room temperature for up to three months.
- Free up freezer space and eliminate all concern about freezing and thawing.
- No need for ice or refrigeration.
- Reduce risk of pipetting errors and contamination.
- Enzyme and reaction buffer are optimized for high specificity, strong yield and robust performance.

### To Use

Simply place the microtubes you wish to use in a 0.2ml tube rack. Open the tube caps and add 25 µl of diluted primers (0.2 – 0.5 µM of each primer) and template-DNA (15 -100 ng). Mix by pipetting 2 times or vortex the unmixed samples held by the tube rack for 2-4 seconds. There is no need to completely dissolve the colored pellet. When at least half of the colored pellet is dissolved, you can start your PCR reaction. The mix contains a dye for direct tracking of your PCR separation in a gel.

This kit may include **PCR Positive Control**, a mix of DNA Template and β-actin Forward & Reverse Primers. To use, simply hydrate the Positive Control mix with 300µl molecular biology grade water, dispense 25µl of the hydrated Positive Control mix into a RoomTemp-PCR reaction tube and start your PCR reaction. Load 5µl of your product onto an agarose gel to visualize a 300bp DNA fragment.

**Notes:** This kit is intended for laboratory research only. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

Catalog #	Size
LT-RTPCRS-96	96 reactions
LT-RTPCRS-192	192 reactions

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