

## **NEW** NovaTaq™ Hot Start Master Mix

Premixed 2X "hot start" PCR components for convenience and reproducibility

NovaTaq™ Hot Start Master Mix is a ready-to-use 2X mixture of NovaTaq Hot Start DNA Polymerase, ultrapure deoxynucleotides, and reaction buffer with MgCl<sub>2</sub>. The Master Mix simplifies the assembly of PCR and offers advantages of time savings, consistency, and minimal risk of contamination. In addition to the Master Mix, the kit includes MgCl<sub>2</sub> for increasing Mg<sup>2+</sup> concentrations and PCR Grade Water. Simply add the NovaTaq

Hot Start Master Mix to an equal volume containing DNA template, primers, and, if desired, additional MgCl<sub>2</sub>. The final diluted reaction contains 1.25 U of NovaTaq Hot Start DNA Polymerase per 50 µl. The two NovaTaq Hot Start Master Mix sizes provide sufficient components for 200 or 1000 standard 50-µl amplification reactions. ■

Product	Size	Cat. No.
<b>NEW</b> NovaTaq™ Hot Start Master Mix	200 rxn	71676-3
	1000 rxn	71676-4

Components		
• 4 × 1.25 ml or 20 × 1.25 ml	NovaTaq Hot Start Master Mix	
• 1 × 1.5 ml or 3 × 1.5 ml	25 mM MgCl <sub>2</sub>	
• 3 × 2 ml or 11 × 2 ml	PCR Grade Water	



M 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6 M  
 NovaTaq Hot Start Master Mix Company Q Company A Company I

M-Markers	
Lane	template DNA (µg)
1	125.0
2	41.7
3	13.9
4	4.6
5	1.5
6	0.5

### NovaTaq Hot Start Master Mix PCR Products

A 1-kbp fragment from lambda DNA was amplified using the indicated master mix in a 50-µl reaction. PCR cycling parameters were as follows: heat activation, 95°C for 8 min, 60°C for 1 min; PCR, 30 cycles at 95°C for 30 s, 60°C for 30 s, 72°C for 15 s; and final extension at 72°C for 10 min. Samples (equal volumes) were analyzed by agarose gel electrophoresis and stained with ethidium bromide.

## Easy, consistent PCR with NovaTaq™ PCR Master Mix

The NovaTaq PCR Master Mix is a ready-to-use 2X mixture of NovaTaq DNA Polymerase, ultrapure deoxynucleotides, and reaction buffer without MgCl<sub>2</sub>. The Master Mix saves time, provides consistency, and minimizes the risk of contamination. Simply prepare the DNA template, primers, and MgCl<sub>2</sub> in half the reaction volume, add an equal volume of 2X NovaTaq PCR Master Mix, and begin thermal cycling. The final diluted reaction

contains 2.5 U of NovaTaq DNA Polymerase per 100 µl. NovaTaq DNA Polymerase is a premium quality, recombinant form of *Thermus aquaticus* DNA polymerase. The enzyme is suitable for a wide range of PCR applications, and generates PCR products with 3'-dA overhangs. NovaTaq PCR Master Mix provides reagents for 200 standard 50-µl (or 100 × 100-µl) amplification reactions. ■

Product	Size	Cat. No.
NovaTaq™ PCR Master Mix	200 rxn	71007-3

Components		
• 4 × 1.25 ml	2X NovaTaq PCR Master Mix	
• 1.5 ml	25 mM MgCl <sub>2</sub>	
• 3 × 2 ml	PCR Grade Water	