

**PRODUCT DATA SHEET**

Description	TaqM Mastermix Lyo.	
REF	Quantity of reactions with volume 30 µl	Components
	50	1,5X TaqM Mastermix Lyo.: 1x1 ml
<b>19-01</b>	250	1,5X TaqM Mastermix Lyo.: 1x5ml
	2500	1,5X TaqM Mastermix Lyo.: 1x50 ml

Composition	1,5X TaqM Mastermix Lyo.
	<ul style="list-style-type: none"> <li>• Taq M DNA Polymerase</li> <li>• 1,5X PCR Buffer</li> <li>• Lyoprotectants composition</li> <li>• dATP, dCTP, dGTP, dTTP :0,3 mM each (0,2 mM in 1x mix)</li> <li>• 5,25 mM Mg<sup>2+</sup> (corresponds to 3,5 mM Mg<sup>2+</sup> in 1x mix)</li> </ul>

Preparation	1,5X TaqM- final volume 30 µl	
	Mastermix Lyo.	20 µl
	Primer 1	0,5-1 µM
	Primer 2	0,5-1 µM
	Probe	0,25-0,5 µM
	DNA template	10 pg – 1 µg
	H <sub>2</sub> O, <i>nuclease-free</i>	up to 30 µl

### Recommended amplification cycle for Real-Time PCR

Stage	Temperature °C	Data collection	Time	Number of cycles
Hold	95	-	15 min	1
Cycling	95	-	10 s	45
	Tm -5	+	20 s	

**Transport** max. 7 days at room temperature

**Storage** Store at -18 ... -30°C  
 Mix retains its properties after 10 freeze-thaw cycles

**Shelf life** 2 years

### Description

**TaqM Mastermix Lyo.** – is a concentrated solution of TaqM DNA Polymerase, lyoprotectants composition and all of the components required for PCR, except DNA template and oligonucleotides. This pre-mixed formulation saves time and reduces contamination due to a reduced number of pipetting steps required for PCR set up. The mix is optimized for lyophilization and for using in the liquid form.

The basis of the Mastermix is TaqM polymerase. TaqM polymerase is a highly purified recombinant Taq DNA polymerase enzyme with chemical modification at the active site, which provides a highly effective hot start: for PCR starting its needs heating for **15 minutes at 95 ° C.**