

PRODUCT DATA SHEET

Name	TaqAB Mastermix Lyo.													
REF	Quantity of reactions with volume 30 µl	Components												
19-03	50	1,5X Taq AB Mastermix Lyo.: 1x1ml												
	250	1,5X Taq AB Mastermix Lyo.: 1x5ml												
	2500	1,5X Taq AB Mastermix Lyo.: 1x50 ml												
Composition	1,5X TaqAB Mastermix Lyo.: •TaqAB DNA Polymerase •1,5X PCR Buffer •Lyoprotectants composition •dATP, dCTP, dGTP, dTTP- 0,375 mM each (0,25mM in 1Xmix) •7,5 mM Mg ²⁺ (corresponds to 5 mM Mg ²⁺ in 1X mix)													
Preparation	1,5X TaqAB -final volume 30 µl: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Mastermix Lyo.</td> <td style="width: 30%;">20 µl</td> </tr> <tr> <td>Primer 1</td> <td>0,5-1 µM</td> </tr> <tr> <td>Primer 2</td> <td>0,5-1 µM</td> </tr> <tr> <td>Probe</td> <td>0,25-0,5 µM</td> </tr> <tr> <td>DNA template</td> <td>10 pg – 1 µg</td> </tr> <tr> <td>H₂O, <i>nuclease-free</i></td> <td>up to 30 µl</td> </tr> </table>		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 ₂ O, <i>nuclease-free</i>	up to 30 µl
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Recommended amplification cycle for Real-Time PCR

Stage	Temperature °C	Data collection	Time	Number of cycles
Hold	95	-	3 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

TaqAB Mastermix Lyo – is a concentrated solution of TaqAB 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 Taq AB polymerase that is a highly purified recombinant Taq DNA polymerase enzyme blocked by two antibodies, which provides a highly effective hot start that enhances the specificity and sensitivity of PCR. For PCR starting its needs heating for **3 minutes at 95 ° C**.