

PRODUCT DATA SHEET
Description
MMLV TaqAB Mastermix Lyo.

REF	Quantity of reactions with volume 30 µl	Components
19-06	50	1,5X MMLV Taq AB Mastermix Lyo.: 1x1000 µl
	250	1,5X MMLV Taq AB Mastermix Lyo.: 1x5ml
	2500	1,5X MMLV Taq AB Mastermix Lyo.: 1x50 ml

Composition

- 1,5X TaqM Mastermix Lyo.
- MMLV Reverse Transcriptase
 - TaqAB DNA Polymerase
 - 1,5X RT-PCR Buffer
 - Lyoprotectants composition
 - dATP, dCTP, dGTP, dTTP :0,375 mM each (0,25 mM in 1X mix)
 - 7,5 mM Mg²⁺ (corresponds to 5 mM Mg²⁺ in 1X mix)

Preparation

1,5X MMLV TaqAB- 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
RNA template	10 pg – 1 µg
H ₂ 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 (RT-stage)	37-45	-	30 min	1
Hold	95	-	3 min	1
Cycling	95	-	10 s	45
	T _m -5	+	20 s	

Transport Max 7 days in thermo-container with cooling packs

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

Shelf life 2 years

Description

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

The basis of the **MMLV TaqAB Mastermix** is

- MMLV Reverse Transcriptase. MMLV Reverse Transcriptase generates full-length cDNA with high efficiency. It has a lower RNase H activity than AMV Reverse Transcriptase and lacks endonuclease activity.
- TaqAB polymerase. TaqAB polymerase is a highly purified recombinant Taq DNA polymerase enzyme with antibody-based hot start, for PCR starting its needs heating for **3 minutes at 95 ° C**.