

Data sheet

This data sheet provided for information only

RT-PCR EMIX**RESEARCH USE ONLY****Enzyme Mix for "one-tube" Reverse Transcription/PCR****SOURCE:**

Moloney Murine leukemia virus
Thermus Auqaticus YT1 strain
Mouse monoclonal antibodies (two clones)

| Cat.No. | Pack | Conc. |
|-----------------|----------------|----------------|
| Dia-9100 | 100 rxn | 1µl/rxn |
| Dia-9101 | 500rxn | 1µl/rxn |

Stability:

Shelf life 12 months if store at -20°C

DESCRIPTION:

RT-PCR EMIX is the "ready-to-use" mix of recombinant genetically modified **MMuIV H-** Reverse Transcriptase, lacking RNase H activity and antibodies-blocked "hot-start" **SmarTaq** DNA polymerase.

RT-PCR EMIX recommends using for amplification of dsDNA from RNA templates in "one-tube" reverse transcription/PCR format.

The use of antibodies-blocked "hot-start" SmarTaq DNA polymerase , which is fully activated above 70°C, in **RT-PCR EMIX**, allows to make reverse transcription step at elevated temperatures, up to +50-55°C, which is crucial for the RNA templates with the high level of secondary structures.

The presence of **SmarTaq DNA polymerase** in **RT-PCR EMIX** improves specificity and yield of cDNA amplification step in "one-tube" RT-PCR reaction.

RT-PCR EMIX recommended using with the **optimized 5X buffer**, which enhance thermal stability of enzymes during combined Reverse Transcription – PCR assay.

STORAGE AND DILUTION BUFFER:

10 mM K-phosphate,pH 7.4; 0.5mM EDTA;
0.1% Triton X-100, 50% glycerol, stabilizer

ASSOCIATED ACTIVITIES:

Tested for absence of endo-, exonuclease, and ribonuclease activity.

5X EMIX BUFFER**APPLICATIONS:**

- RT
- RT/PCR
- First strand DNA synthesis

STORAGE CONDITIONS :

For long term storage of **RT-PCR EMIX** preferable -20°C.

Could be stored at +4°C for 1 months.

SHIPPING CONDITIONS:

Could be shipped at ambient temperature for 3-4 days

For long distance shipments preferably in **Blue Ice**