

## EVA GREEN® ONE-RUN RT PCR KIT - 1X

### CAT. NO:

70R-01-20 (20 RXN)

70R-01-100 (100 RXN)

### PRODUCT DESCRIPTION

The ready to use kit is designed for all applications required for *One-Run* RT-PCR and suitable for both to DNA and RNA. The reverse transcription step is directed by M-MuLV reverse transcriptase. Hot-start Taq DNA polymerase is activated by heating up the reaction 10 min at 95 °C, after cDNA is synthesized.

### PRODUCT SPECIFICATION

Reverse Transcriptase component (M-MLV) of the kit is active at 50 °C, with a half life of 230 minutes, with the activity of RNase H reduced. HotStart Taq DNA Polymerase enzyme is a mixture of enzyme and Anti-Taq monoclonal antibodies to ensure specificity and thermostability. Kit contains 0.2 mM dNTP, 3 mM MgCl<sub>2</sub> and HotStart Taq DNA Polymerase. System can be used directly both with DNA and RNA. After the run, you can detect your DNA Sequence using by EvaGreen Dye.

### SYSTEM CONTENTS

<b>Reagents</b>	<b>20 rxns</b>
• RT PCR Reaction Mix (1X)	380 µl
• PCR Grade Water**	500 µl
• MgCl <sub>2</sub> 25 mM **	500 µl

**(\*) Master mixes include HotStart Taq DNA Polymerase.**

**(\*\*) Optional**

### PROCEDURE

#### **FOR 1 RXN;**

- 19,0 µl RT PCR Reaction mix
- Primers (each forward and reverse primers 10 pmol) (\*)
- Total RNA 1 – 5 µl or DNA (1 – 100 ng) (\*)
- Add PCR Grade water until total volume 25 µl.
- Mix gently by pipetting.
- Run with the programme shown below.

**(\*) Not included**

### PCR PROGRAMME

#### **For RNA;**

42 °C	30 min.	
95 °C	3 min.	
95 °C	15 sec.	35-45 cycles
60 °C	1 min.	

#### **For DNA;**

95 °C	3 min.	
95 °C	15 sec.	35-45 cycles
60 °C	1 min.	

### STORAGE

- All reagents should be stored at – 20 °C and dark.
- All reagents can be used until the expiration date on the box.
- Repeated thawing and freezing (>3X) should be avoided, as this may reduce the sensitivity of the assay.

### CAUTIONS

- All reagents should be stored at suitable conditions.
- Do not use the PCR mastermixes forgotten at room temperature.
- Thaw PCR mastermix at room temperature and slowly mix by inverting before use.
- Shelf-life of PCR mastermix is 12 months. Please check the manufacturing data before use
- Only use in vitro diagnostics.

Please contact us for your questions. [tech@snp.com.tr](mailto:tech@snp.com.tr)