

## Carrier RNA

### Composition

Carrier RNA		
Cat. No.	4003101	4003130
Carrier RNA	1 ml	30 ml

### Storage

Carrier RNA can be stored for up to 2 years at -20°C. It can be stored for within 15 days at 2~8°C. It can be stored for within 1 week at room temperature (15-25°C).

Carrier RNA can be frozen and thawed repeatedly without showing any reduction in performance.

### Technical Support

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### Introduction

Carrier RNA is an RNA mixture of fragments between 200 and 3000 nt, dissolved in an RNA Protect Reagent (Simgen Cat. No. 4006030) at a concentration of 6 µg/µl. The binding and elution efficiency of trace nucleic acids on the spin column was seriously reduced during the process of column purification, such as Viral RNA Extraction Kit (Simgen Cat. No. 4001050), Viral Nucleic Acid Extraction Kit (Simgen Cat. No. 4002050) and Trace DNA Extraction Kit (Simgen Cat. No. 3102050), which resulted in the failure to recover enough templates and finally failed to do PCR detection. The addition of Carrier RNA to the nucleic acid column purification system can improve the recovery efficiency of trace nucleic acids more than 10 times. At the same time, due to the presence of Carrier RNA, it can also protect the trace RNA templates in particular, especially reduce the attack probability of RNase. Carrier RNA is an indispensable component in trace RNA extraction (e.g. viral RNA extraction).

### Protocol

Add 0.5-2 µl Carrier RNA to the lysis buffer of each trace nucleic acid extraction system, and the finally obtained trace nucleic acid containing Carrier RNA can be used in PCR or RT-PCR reactions immediately.

### Note

1. The dosage of Carrier RNA is determined by the nucleic acid extraction system and the PCR or RT-PCR system. Users can choose the most suitable dosage within the range of 0.5-2 µl.
2. For extracting viral RNA, the dosage of Carrier RNA more than 6 µg may affect the efficiency of reverse transcriptase in the subsequent experiment.
3. To obtain a lower concentration of Carrier RNA, purchase RNA Protect Reagent (Simgen Cat. No. 4006030) for dilution was recommended.