

Annealing Buffer for RNA Oligos (10X)

A743818

Storage: Store at -20 °C for up to 1 year.

Introduction:

Annealing Buffer for RNA Oligos (10X) is used for annealing complementary RNA oligos to form double-stranded RNA to synthesize siRNA after cell transfection. This product can ensure proper annealing by effective prevention of RNA oligos from forming hairpin structures. This product is easy-to-use. Users just need to mix RNA oligos and the Annealing Buffer for RNA Oligos (10X) in an appropriate ratio and place the reaction in a thermocycler to complete the annealing in 60 minutes.

This product is free RNase to avoid RNA degradation.

Usage method:

1. Dilute the RNA oligos to be annealed to 200μM with DEPC-treated water. Thaw the Annealing Buffer for RNA Oligos (10X) and mix well.
2. Add the reagents in order as follows and mix well.

Component	Volume
DEPC-treated Water	40μl
Annealing Buffer for RNA Oligos (10X)	10μl
RNA oligo A (200μM)	25μl
RNA oligo B (200μM)	25μl
Total volume	100μl

3. Set up the PCR instrument for annealing reaction.

Step	Temperature	Time
Denaturation	90°C	1 minute
Annealing	-0.1°C/5s, to 25°C	60 minutes
Storage	4°C	∞

Note 1: The gradient temperature decreasing rate can also be set at -1°C/60s.

Note 2: When a thermocycler is not available, the PCR tube can be placed in a water bath with appropriated amount of 90°C water that can achieve the temperature decreasing from 90°C to 25°C within 1-2 hours naturally. However, the annealing efficacy will be inferior to that obtained using a thermocycler.

4. The annealed products can be directly used for cell transfection, or stored at -20°C for future use.

Precautions:

1. Annealing Buffer for RNA Oligos (10X) is for RNA oligos only, not for DNA oligos.
2. As RNA is very susceptible to degradation, extreme care must be taken to prevent RNase contamination during the course of experimentation.
3. This product is for R&D only. Not for drug, household, or other uses.
4. For your safety and health, please wear a lab coat and disposable gloves during the operation.

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