

DNA Annealing Buffer(5×)

Cat: D2810

Size: 1mL/5mL

Store: -20°C, valid for at least 12 months.

Introduction:

Annealing Buffer for DNA Oligos, also known as DNA oligonucleotide annealing buffer, annealing buffer can be used not only for conventional annealing of DNA Oligo, But also especially suitable for the annealing of DNA oligos for the construction of siRNA plasmids, which are more difficult to annealing. DNA annealing buffer(5×) can effectively avoid the formation of hairpin structure of DNA Oligo itself, and the two Oligo can be directly linked to the purified plasmid after annealing. Usually, a large number of positive clones can be obtained after transformation.

The operation of this reagent is very simple, just mix the DNA Oligo to be annealed and the DNA annealing buffer(5×) according to a certain proportion, and place it on the PCR machine, about 60min to complete.

Protocols(only for reference):

1. Dilute the DNA annealing buffer(5×) to 1 x working concentration with deionized water.
2. Dissolve two complementary single strands of DNA oligonucleotide separately with DNA annealing buffer (1×) so that their molar concentrations are equal;
3. Take the same volume of the oligonucleotide single chain solution obtained in step 2 and mix it into the PCR reaction tube. Do not cover the sample with mineral oil.
4. Put the PCR tube in the PCR instrument and set reaction conditions: denaturation at 95°C for 2min; Slow cooling to 25°C, the cooling process takes at least 45min; The product can be briefly stored at 4°C for subsequent experiments. Long-term storage can be frozen at -20°C.

Notes:

1. DNA Annealing buffer(5×) is only suitable for annealing DNA oligo and cannot be used for annealing RNA oligo.
2. For your safety and health, please wear a lab coat and disposable gloves for operation.

Related Products:

| | |
|--------------|------------------------------------|
| <i>D1080</i> | <i>50×Denhardt solution</i> |
| <i>H1060</i> | <i>Salmon Extract DNA, 10mg/mL</i> |
| <i>S1035</i> | <i>20×SSC, PH5.3</i> |
| <i>S1090</i> | <i>20×SSC, PH7.4</i> |
| <i>S1160</i> | <i>20×SSPE, PH7.4</i> |
| <i>D2810</i> | <i>DNA Annealing Buffer(5×)</i> |