

# Resuspension of duplexed oligonucleotides (<50 nmol yield<sup>1</sup>)

A protocol for resuspending dried, annealed oligos, including Dicer-Substrate siRNAs (DsiRNAs)

1. Centrifuge tubes before opening to ensure duplexed oligos are at the bottom of the tube.
2. Resuspend duplexed oligos in Nuclease-Free Water (Cat # 11-04-02-01) to make a stock solution (concentration  $\geq 100 \mu\text{M}$ ). For example:

<i>Duplexed oligo amount</i>	<i>Nuclease-Free Water (100 <math>\mu\text{M}</math> final concentration)</i>
2 nmol	20 $\mu\text{L}$
10 nmol	100 $\mu\text{L}$
25 nmol	250 $\mu\text{L}$
50 nmol	500 $\mu\text{L}$

3. Make further dilutions (<100  $\mu\text{M}$ ) using a buffer containing 100 mM  $\text{Na}^+$  or  $\text{K}^+$ . For example:

<i>Final concentration</i>	<i>100 <math>\mu\text{M}</math> Duplexed oligo (From Step 2)</i>	<i>Buffer (Containing 100 mM <math>\text{Na}^+</math> or <math>\text{K}^+</math>)</i>
50 $\mu\text{M}$	20 $\mu\text{L}$	20 $\mu\text{L}$
20 $\mu\text{M}$	20 $\mu\text{L}$	80 $\mu\text{L}$
10 $\mu\text{M}$	10 $\mu\text{L}$	90 $\mu\text{L}$

To calculate other dilutions, use the online IDT<sup>®</sup> Dilution Calculator at [www.idtdna.com](http://www.idtdna.com).

<sup>1</sup>For instructions for resuspending duplexed oligos of  $\geq 50$  nmol yield, turn card over. Salts will be present following annealing and dry-down processes at IDT. To maintain suitable salt concentrations for the duplex structure of your product, we recommend these resuspension protocols.

Visit [www.idtdna.com/protocols](http://www.idtdna.com/protocols) to verify that you are using the most current version of this protocol.



# Resuspension of duplexed oligonucleotides ( $\geq 50$ nmol yield<sup>1</sup>)

A protocol for resuspending dried, annealed oligos, including Dicer-Substrate siRNAs (DsiRNAs)

1. Centrifuge tubes before opening to ensure duplexed oligos are at the bottom of the tube.
2. Resuspend duplexed oligos in Nuclease-Free Water (Part # 11-04-02-01) to make a stock solution (volume  $\leq 500$   $\mu\text{L}$ ). For example:

<i>Final Concentration</i>	<i>Duplexed oligo amount</i>	<i>Nuclease-Free Water</i>
200 $\mu\text{M}$	100 nmol	500 $\mu\text{L}$
500 $\mu\text{M}$	250 nmol	500 $\mu\text{L}$

3. Make further dilutions ( $> 500$   $\mu\text{L}$ ) using a buffer containing 100 mM  $\text{Na}^+$  or  $\text{K}^+$ . For example:

<i>Final concentration</i>	<i>200 <math>\mu\text{M}</math> Duplexed oligo (From Step 2)</i>	<i>Buffer (Containing 100 mM <math>\text{Na}^+</math> or <math>\text{K}^+</math>)</i>
50 $\mu\text{M}$	25 $\mu\text{L}$	75 $\mu\text{L}$
10 $\mu\text{M}$	5 $\mu\text{L}$	95 $\mu\text{L}$

  

<i>Final concentration</i>	<i>500 <math>\mu\text{M}</math> Duplexed oligo (From Step 2)</i>	<i>Buffer (Containing 100 mM <math>\text{Na}^+</math> or <math>\text{K}^+</math>)</i>
50 $\mu\text{M}$	10 $\mu\text{L}$	90 $\mu\text{L}$
10 $\mu\text{M}$	2 $\mu\text{L}$	98 $\mu\text{L}$

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