

Resuspension of duplexed oligonucleotides (<50 nmol yield*)

resuspension protocol

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 (catalog # 11-04-02-01) to make a stock solution (concentration $\geq 100 \mu\text{M}$). For example:
3. Make further dilutions (<100 μM) using a buffer containing 100 mM Na^+ or K^+ (e.g., a Nuclease-Free Duplex Buffer [100 mM Potassium Acetate; 30 mM HEPES, pH 7.5, catalog # 11-05-01-03]). For example:

Duplexed oligo amount	Nuclease-Free Water (100 μM final concentration)
2 nmol	20 μL
10 nmol	100 μL
25 nmol	250 μL
50 nmol	500 μL

Final concentration	100 μM duplexed oligo (from Step 2)	Buffer (containing 100 mM Na^+ or K^+)
50 μM	20 μL	20 μL
20 μM	20 μL	80 μL
10 μM	10 μL	90 μL

To calculate other dilutions, use the online IDT Dilution Calculator at <https://www.idtdna.com/Calc/Dilution/>.

Visit www.idtdna.com/protocols to verify that you are using the most current version of this protocol.

* For instructions for resuspending duplexed oligos of ≥ 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.

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INTEGRATED DNA TECHNOLOGIES

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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 (catalog # 11-04-02-01) to make a stock solution (volume ≤ 500 μL). For example:
3. Make further dilutions (>500 μL) using a buffer containing 100 mM Na^+ or K^+ (e.g., a Nuclease-Free Duplex Buffer [100 mM Potassium Acetate; 30 mM HEPES, pH 7.5, catalog # 11-05-01-03]). For example:

To calculate other dilutions, use the online IDT Dilution Calculator at <https://www.idtdna.com/Calc/Dilution/>.

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Final concentration	Duplexed oligo amount	Nuclease-Free Water
200 μM	100 nmol	500 μL
500 μM	250 nmol	500 μL

Final concentration	200 μM duplexed oligo (from Step 2)	Buffer (containing 100 mM Na^+ or K^+)
50 μM	25 μL	75 μL
10 μM	5 μL	95 μL

Final concentration	500 μM duplexed oligo (from Step 2)	Buffer (containing 100 mM Na^+ or K^+)
50 μM	10 μL	90 μL
10 μM	2 μL	98 μL

* For instructions for resuspending duplexed oligos of <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.

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