



Agilent TOP-DNA and TOP-RNA

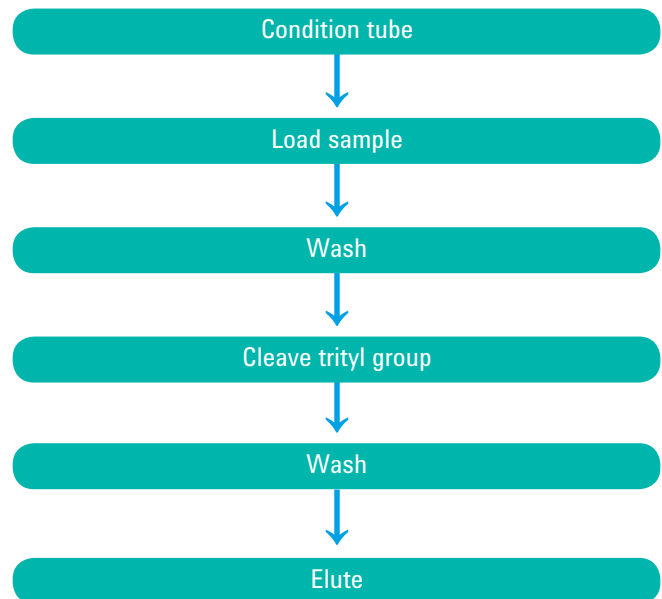
Agilent TOP-DNA and TOP-RNA make it easy to quickly obtain outstanding yields of high-purity synthetic DNA and RNA oligonucleotides. Both products remove interfering salts, incomplete synthesis products and other impurities in a few simple steps.



Key benefits

- **Better performance.** You'll obtain more of the usable product you want.
 - Higher yield - typically > 85%
 - Higher purity - typically > 90%
- **Convenience.** Perform detritylation of both DNA and RNA oligos in the tube. Avoid time-consuming alternatives like HPLC.
- **Increased productivity.** The tubes can be arrayed in 96-well format to ensure that purification doesn't limit your throughput. Typical cycle times are 10 to 15 minutes (vacuum required and Agilent VersaPlate, part no. 75700001).
- **High binding capacity.** Purify products from 200 nmol to 1 μ mol synthesis scale, depending on oligo length.
- **Flexibility.** Use the same product for all of your DNA oligos regardless of length.

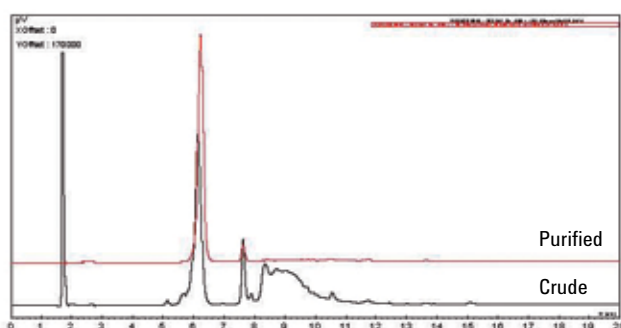
Purify oligos in 6 easy steps



TOP-DNA and TOP-RNA tubes from Agilent deliver higher yields and purity for your custom synthesized oligonucleotides. Both products remove salts, incomplete synthesis products and other impurities in a few simple steps.

TOP-DNA

TOP-DNA can be used for the purification of synthetic oligos, regardless of their length. You won't need separate methods for short and long products. The unique sorbent allows detritylation while oligos are bound in the cartridge. Base deprotection can be done with the faster AMA method (1:1 mixture of ammonium hydroxide and methylamine, 40 wt % solution in water), saving valuable time and increasing throughput.



Purification of a 120mer DNA sequence (reversed-phase chromatograph) 5'(DMT) GAC TGA ATG GCT GAT CTA GCT ATG CGA ATG GCG ATC CTA GTC ACG GTC CAT CTG GCT TAA CGT CGA AAC GAC TGA ATG GCT GAT CTA GCT ATG CTA ATC GCG ATC CTA GTC ACG GTC CAT 3'

Typical purity and yield data for DNA sequences. Values from reversed-phase chromatograms.

DNA length	Purity	Yield
21mer	92%	92%
70mer	96%	93%
120mer	90%	97%

Ordering information

Description	Format	Bed mass	Quantity	Part number
TOP-DNA	Tubes	150 mg	96/pk	7572915C
TOP-DNA	Tubes	150 mg	96x20/pk	7572915B

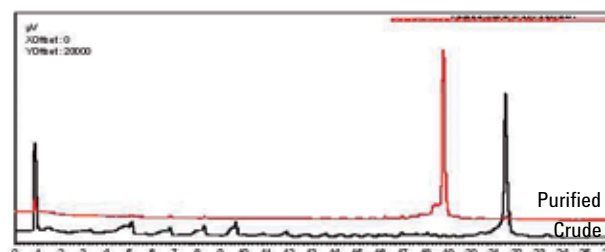
Additional application note resources

High performance DNA oligonucleotide purification using Agilent TOP-DNA tube. Publication 5990-9006EN

High performance RNA oligonucleotide purification using Agilent TOP-RNA tube. Publication 5990-8974EN

TOP-RNA

Agilent has designed a complete solution for the rapid purification of RNA oligos. The 2 M Tris Quenching Buffer allows deprotection of the 2' hydroxyl group without removal of the 5' trityl group. Trityl-on oligos can be loaded onto the TOP-RNA tube, detritylated and eluted. You avoid time-consuming HPLC or low-yielding gel purifications.



Purification of a lamin B2 RNA oligo (reversed-phase chromatograph) 5' (DMT) ACU CGG CUU CCU CCU CCU CUU 3'

Typical purity and yield data for RNA sequences. Values from reversed-phase chromatograms.

RNA	Purity	Yield
polyU 21mer	98%	90%
lamin B2	92%	86%
polyU 40mer	95%	92%

Ordering information

Description	Format	Bed mass	Quantity	Part number
TOP-RNA	Tubes	100 mg	96/pk	7573915C
TOP-RNA	Tubes	100 mg	96x20/pk	7573915B

Agilent sample preparation products:
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