

## Chromatography Solutions

# Avantor® ACE® Excel Oligo U/HPLC Columns

Buy 1 column from the list below and get  
1 case of qualifying VWR Chemicals BDH  
Biosynthesis Reagents – free!

### UHPLC/HPLC COLUMNS FOR REPRODUCIBLE OLIGONUCLEOTIDE ANALYSIS

- Proprietary encapsulated stationary phase for oligonucleotide analysis
- Ultra-inert silica and high efficiency 1.7 and 3 µm particle sizes for optimum peak shape
- Extended pH stability up to 11.5 with LC-MS compatible buffers
- Highly reproducible stationary phase: batch-to-batch and column-to-column
- Excellent column lifetime under oligonucleotide testing conditions



### OLIGONUCLEOTIDE ANALYSIS

- Oligonucleotides are being synthesized for therapeutic usage against many diseases including genetic disorders and cancer
- Several impurities can be produced during oligonucleotide synthesis (e.g., failure sequences) which need to be separated from the desired product
- Ion-pair RPLC can be employed for the analysis of trityl-off deprotected oligonucleotides
- Triethylammonium acetate (TEAA) is used to ion pair with the negatively charged phosphodiester backbone of the oligonucleotide
- The stationary phase is chemically modified to withstand an extended pH range

#### COLUMNS TO PURCHASE

| Column format | Phase | I.D.×L     | Particle Size | Pore Size | Cat. No.  | Unit |
|---------------|-------|------------|---------------|-----------|-----------|------|
| Analytical    | Oligo | 2.1×50 mm  | 1.7 µm        | 90 Å      | 76415-444 | Each |
| Analytical    | Oligo | 2.1×100 mm | 1.7 µm        | 90 Å      | 76415-446 | Each |
| Analytical    | Oligo | 2.1×50 mm  | 3 µm          | 90 Å      | 76415-432 | Each |
| Analytical    | Oligo | 2.1×100 mm | 3 µm          | 90 Å      | 76415-436 | Each |
| Analytical    | Oligo | 2.1×150 mm | 3 µm          | 90 Å      | 76415-440 | Each |
| Analytical    | Oligo | 4.6×50 mm  | 3 µm          | 90 Å      | 76415-434 | Each |
| Analytical    | Oligo | 4.6×100 mm | 3 µm          | 90 Å      | 76415-438 | Each |
| Analytical    | Oligo | 4.6×150 mm | 3 µm          | 90 Å      | 76415-442 | Each |



## VWR CHEMICALS BDH® BIOSYNTHESIS REAGENTS

- High purity reagents with low water content formulated for DNA and RNA synthesis
- Manufactured at an ISO 9001:2015 certified facility
- Multiple formulations available of activators, deblockers, capping reagent A and B, and oxidizers
- Dry solvents also available
- Custom formulations and bulk options available — contact your VWR sales representative for more information

## FREE PRODUCT

| Description                                      | Reagent Type | Size      | Cat. No.                      |
|--|--------------|-----------|-------------------------------|
| 0.5M ETT in Anhydrous ACN                        | Activator    | 6 x 450mL | <a href="#">BDH0604-450ML</a> |
| 20% NMI in Anhydrous ACN                         | Cap A        | 6 x 450mL | <a href="#">BDH0607-450ML</a> |
| 8:1:1 THF/Lutidine/Acetic Anhydride              | Cap A        | 6 x 450mL | <a href="#">BDH0612-450ML</a> |
| 9:1 THF/Acetic Anhydride                         | Cap A        | 6 x 450mL | <a href="#">BDH0614-450ML</a> |
| 50:20:30 Anhydrous ACN/Acetic Anhydride/Lutidine | Cap B        | 6 x 450mL | <a href="#">BDH0611-450ML</a> |
| 3% DCA in Anhydrous DCM                          | Deblock      | 6 x 450mL | <a href="#">BDH0609-450ML</a> |
| 3% TCA in Anhydrous DCM                          | Deblock      | 6 x 450mL | <a href="#">BDH0610-450ML</a> |
| 0.02M Iodine in THF/Pyridine/Water [70:20:10]    | Oxidizer     | 6 x 450mL | <a href="#">BDH0600-450ML</a> |

### Terms and Conditions:

1. Purchase your Avantor®ACE® Excel Oligo U/HPLC columns, between January 1, 2024 and June 30, 2024 by visiting [vwr.com](#), calling 855 282 6867 or 800 932 5000, or contacting your Avantor/VWR sales reps.
2. To receive your free VWR Chemicals BDH® biosynthesis reagent, visit [vwr.com/promotions](#) and search for promo code 5612. Fill in the online form before July 30, 2024. Be sure to indicate your choice of free product.

Allow up to 8 weeks for delivery of free items. Limit one redemption per customer. Valid while supplies last.