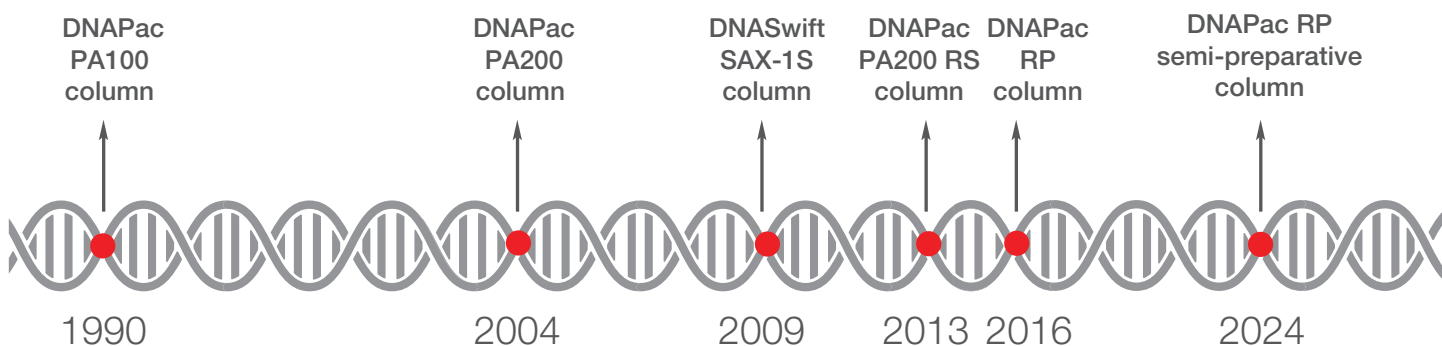


BioLC columns

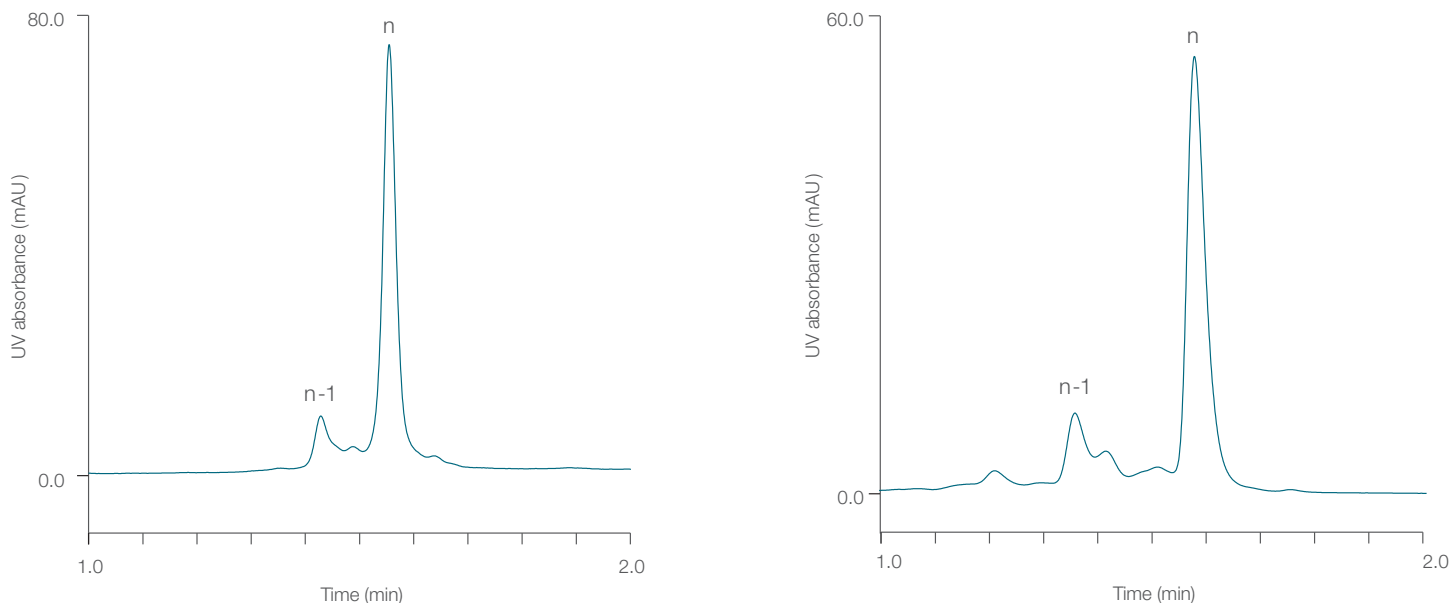
# Ultra-high resolution oligonucleotide separation

## Thermo Scientific DNAPac columns



For over 30 years, the Thermo Scientific™ DNAPac™ Columns have been the reliable solution for high resolution ultra-high-performance liquid chromatography (UHPLC) separations. When oligonucleotide purity and characterization are critical to your work, you can rely on our anion exchange and reversed-phase column chemistries. Failure sequences and impurities generated during nucleic acid synthesis affect the quality of therapeutic oligonucleotides and molecular diagnostic primers. DNAPac columns are designed for high-resolution high-performance liquid chromatography (HPLC) and liquid chromatography-mass spectrometry (LC-MS) separations – proof of our innovative chemistries are widely referenced in hundreds of peer reviewed journal articles.

- **Thermo Scientific™ DNAPac™ PA200 and DNAPac™ PA200RS Columns** offer the highest resolution charge based oligonucleotide separations. These anion-exchange columns provide unsurpassed resolution of full length from  $n^{-1}$ ,  $n^{+1}$  (and other failure sequences).
- **Thermo Scientific™ DNAPac™ RP (U)HPLC Columns** are high-throughput, high-resolution columns designed for ion-pair reversed-phase separations. They are compatible with LC-MS, have long-lasting polymeric columns, and can operate up to pH 14. They also have temperature stability up to 110 °C. These columns can easily resolve both small polynucleotides and large dsDNA fragments up to 10,000 bp due to pores varying from 50-2000Å. *Now available in semi-preparative format.*
- **Thermo Scientific™ DNASwift™ SAX-1S Monolith Column** provide high loading capacity for easy laboratory scale charge-based purification of oligonucleotide samples.



**Figure 1. Combining speed and resolution, the DNAPac RP column 2.1 x 50 mm (left) and DNAPac PA200RS column 2.1 x 50 mm (right) separate 22mer DNA (n) from 21mer DNA (n-1; 3' truncated) sample**

### Ordering information

| Description  |                        |                        |                        |                                |
|--|------------------------|------------------------|------------------------|--------------------------------|
| <b>DNAPac PA200 Oligonucleotide columns</b>        | 2.0 mm ID              | 4.0 mm ID              | 9.0 mm ID              | 22.0 mm ID                     |
| Standard analytical column, 8 µm, 250 mm           | <a href="#">063425</a> | <a href="#">063000</a> | <a href="#">063421</a> | <a href="#">088781</a>         |
| Guard column, 5 µm, 50 mm                          | <a href="#">063423</a> | <a href="#">062998</a> | <a href="#">063419</a> | <a href="#">088780</a>         |
| <b>DNAPac PA200RS Oligonucleotide HPLC columns</b> |                        | 4.6 mm ID              |                        |                                |
| UHPLC column, 4 µm, 250 mm                         | –                      | <a href="#">082510</a> | –                      | –                              |
| UHPLC column, 4 µm, 150 mm                         | –                      | <a href="#">082509</a> | –                      | –                              |
| UHPLC column, 4 µm, 50 mm                          | –                      | <a href="#">082508</a> | –                      | –                              |
| <b>DNAPac RP columns</b>                           | 2.1 mm ID              | 3.0 mm ID              | 10.0 mm ID             | 21.2 mm ID                     |
| Analytical column, 4 µm, 250 mm                    | <a href="#">303324</a> | –                      | –                      | –                              |
| Analytical column, 4 µm, 100 mm                    | <a href="#">088923</a> | <a href="#">088919</a> | –                      | –                              |
| Analytical column, 4 µm, 50 mm                     | <a href="#">088924</a> | <a href="#">088920</a> | –                      | –                              |
| Semi-preparative column, 4 µm, 150 mm              | –                      | –                      | <a href="#">SP6998</a> | –                              |
| Semi-preparative column, 4 µm, 150 mm              | –                      | –                      | –                      | <a href="#">080922-1521232</a> |
| Guard cartridges (2/pack)                          | <a href="#">088925</a> | <a href="#">088921</a> | –                      | <a href="#">080922-0121232</a> |
| Guard cartridge holder                             | <a href="#">069580</a> | <a href="#">069580</a> | –                      | <a href="#">950-00</a>         |
| <b>DNASwift SAX-1S column</b>                      |                        | 5.0 mm ID              |                        |                                |
| HPLC column, monolith, 150 mm                      | –                      | <a href="#">066766</a> | –                      | –                              |

Learn more at [thermofisher.com/biolc](https://thermofisher.com/biolc)