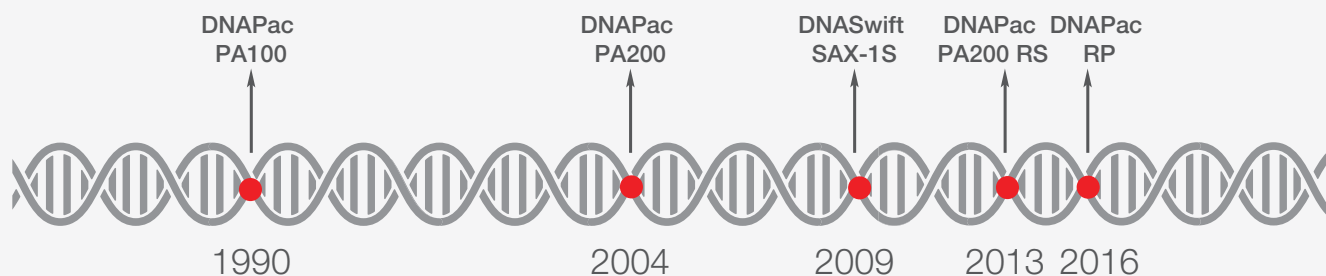


## Ultra-high resolution oligonucleotide separation

For over 30 years, the Thermo Scientific™ DNAPac™ family of columns has been the go-to for high resolution U/HPLC separations. When oligonucleotide purity and characterization is 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 HPLC and LC/MS separations – and you're in good hands because 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** deliver high throughput, high resolution ion-pair reversed-phase separations. These LS-MS compatible, long-lasting polymeric columns operate up to pH 14, have temperature stability to 110 °C, and easily resolve large dsDNA fragments up to 10,000 bp.

**Thermo Scientific™ DNASwift™ SAX-1S monolith columns** provide high loading capacity for easy laboratory scale charge-based purification of oligonucleotide samples.

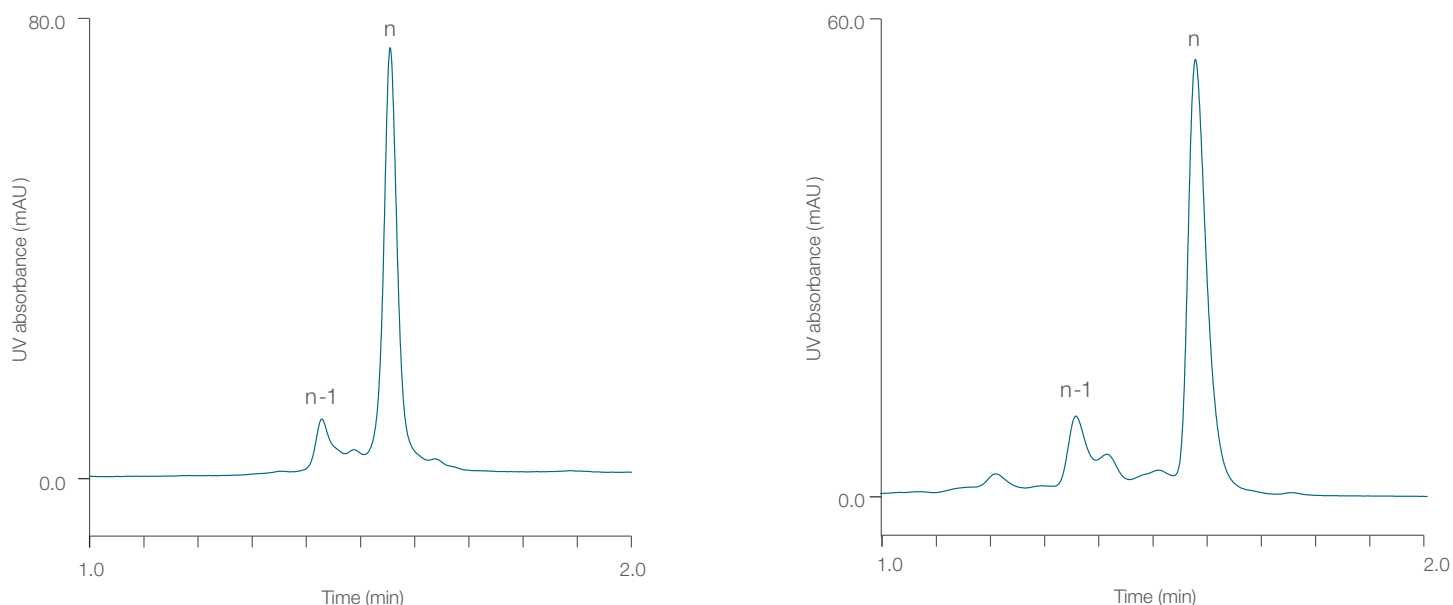


Figure 1. Combining speed and resolution, the DNAPac RP 2.1 x 50 mm (left) and DNAPac PA200RS 2.1 x 50 mm (right) separate 22mer DNA (n) from 21mer DNA (n-1; 3' truncated) sample.

#### DNAPac PA200 Oligonucleotide columns

Particle Size (µm)	Format	Length (mm)	2.0 mm ID	4.0 mm ID	9.0 mm ID	22.0 mm ID
8	Standard analytical column	250	DX063425	DX063000	DX063421	DXSP6734
5	Guard column	50	DX063423	DX062998		088780

#### DNAPac PA200RS Oligonucleotide HPLC columns

Particle size (µm)	Format	Length (mm)	4.6 mm ID
4	UHPLC column	50	DX082508
		150	DX082509
		250	DX082510

#### DNAPac RP columns

Particle Size (µm)	Format	Length (mm)	2.1 mm ID	3.0 mm ID
4	Analytical column	250	03-254-124	-
		100	DX088923	DX088919
		50	DX088924	DX088920
	Guard cartridges (2/pk)	10	DX088925	DX088921
	Guard cartridge holder		DX069580	DX069580

#### DNASwift SAX-1S column

Particle size (µm)	Format	Length (mm)	5.0 mm ID
Monolith	HPLC column	150	DX066766

#### Other resources:

1. Application note: [Nucleic acid therapeutics](#)
2. Technical guide: [Superior oligonucleotide analysis](#)

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