

Biopharma

**By your side**

Advancing oligonucleotide therapeutics



# Enabling every step of your oligonucleotides analysis

Oligonucleotides are emerging as powerful therapeutic agents and vaccines for various disease conditions. To ensure their effectiveness and safety, thorough analysis is essential. This analysis involves understanding the oligonucleotide sequence, identifying, and quantifying modifications, and monitoring impurities. Our advanced analysis solutions are designed to provide comprehensive characterization of oligonucleotides, enabling researchers

and analysts to gain valuable insights into their properties. With our state-of-the-art technology, you can confidently evaluate the sequence, track modifications, and ensure purity, ultimately advancing the development of oligonucleotide-based therapies. Discover how our cutting-edge analysis solutions can enhance the understanding and optimization of oligonucleotides, empowering you to drive innovation in therapeutic development.



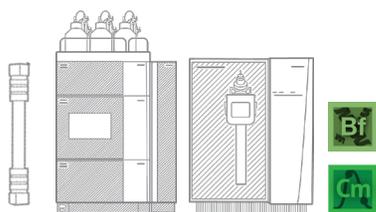
# Oligonucleotide analysis

Versatile solutions for oligonucleotide analysis

Oligonucleotides are being developed as therapeutic agents and vaccines against a wide range of disease conditions. Oligonucleotides must be analyzed to understand their sequence and to identify, quantify and monitor their modifications and impurities.

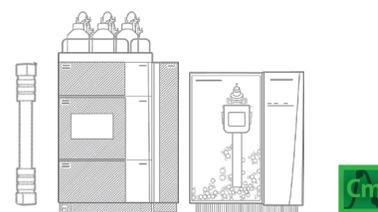


## Characterization



**Vanquish UHPLC-Orbitrap Exploris 240 MS**  
Using the high-resolution accurate mass and data, one can confidently identify, map, and relatively quantitate oligonucleotides, impurities, and degradation products in a single experiment

## Routine monitoring



**Vanquish UHPLC-Orbitrap Exploris MX MS**  
Orbitrap-based mass spectrometers with class leading accurate mass and resolving power



### Value-added workflow benefits

- Oligonucleotide-designed DNAPac LC column family to fit wide oligonucleotide needs
- Rapid assessment of oligonucleotide purity
- Excellent separation of 21mer oligonucleotide and its impurities using the Thermo Scientific™ DNAPac™ RP column with the Vanquish Horizon UHPLC system
- Unique fit-for-use oligonucleotide analysis workflow in BioPharma Finder software

 [Learn more](#) about oligonucleotide analysis

 **Application note** - Identification and quantitation of oligonucleotides, impurities, and degradation products.

# By your side goes beyond products

As a company with a deep understanding of the challenges of biotherapeutic development, we are driven to perfect the technologies that help you deliver next-generation drugs to market faster. You're gaining ground and advancing science at every step. It's a lot of pressure, but you've got the knowledge and we're here to help. That's why being by your side extends well beyond our technologies. Thermo Fisher Scientific also supports you with superior services and application expertise that we've spent over decades curating. By getting the most out of your Thermo Scientific workflow solutions, you can put your focus where it needs to be—making a positive impact.

**Learn more about how Thermo Fisher Scientific  
can power your biotherapeutic discovery**

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

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