

WHITEPAPER

# **ANALYTICAL STRATEGIES FOR QUALITY CONTROL OF OLIGONUCLEOTIDE THERAPEUTICS**

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# ABSTRACT

Oligonucleotides therapeutics have the potential to address a wide range of therapeutic applications including infectious diseases, oncology, neurodegenerative disorders, cardiovascular diseases and kidney diseases. There are around 135 oligonucleotide therapeutics currently in different stages of development, with clinical trials conducted on various types of oligonucleotides.

The analytics required to achieve comprehensive characterisation or quality control programs involve a diverse mix of advanced techniques.

In this whitepaper, our oligonucleotide services experts describe analytical approaches to achieve identification and characterisation including melting temperature determination, structural characterisation using NMR and high resolution mass spectrometry and determination of product or process related impurities.

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