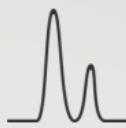




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Nucleic Acids and Therapeutic Oligonucleotides  
**Bioanalytical Services**



**PK and PD for: Viral Vectors,  
Therapeutic Oligonucleotides and  
Transgene DNA and RNA**



**Gene Expression**



**Biodistribution Studies**



**Shedding**



**Genetic Biomarkers**



**Immunogenicity**

- Bioanalysis labs in Germany and Spain
- Different analytical platforms available:  
**qPCR, hybridization ELISA, LC-MS/MS**



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GROUP

## Nucleic Acids and Therapeutic Oligonucleotides **Bioanalytical Services**

### Bioanalysis of Nucleic Acids

- Preclinical and clinical studies
- PK/PD quantification
- Gene expression
- Biodistribution and shedding
- Genetic biomarkers
- Immunogenicity (ADA testing by ECLA/ELISA and cell-based assays for neutralizing antibodies)
- PK and PD calculations and statistics

### State-of-the-art technologies

- Real-Time qPCR
- Hybridization ELISA (0.5 - 1,000ng/ml)
- LC-MS/MS (Sciex 6500) quantification of therapeutic acids (LOQ 1ng/ml)

### Experience

- Quantification of DNA, mRNA, miRNA, siRNA, ASO
- Virus and viral vectors: Oncolytic viruses, AAV, Lentivirus, Herpesvirus
- Detection in different and complex matrices. More than 20 different tissues
- Development and validation of analytical methods

**GLP certified & GCP compliant. EMA and FDA inspected**



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