

Celerion: Accelerating Therapeutic Futures with Molecular Biology Services



Celerion, globally recognized for its groundbreaking molecular biology services, catalyzes the development of nucleic acid therapeutics, anchoring its prowess in technologies like qPCR and ddPCR, thus evolving as a linchpin in drug development, from discovery through clinical trials.

Key Services & Technologies:

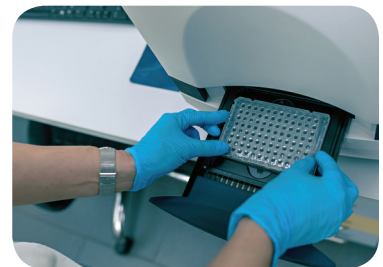
- **Real-time qPCR & ddPCR:** Famed as a gold standard, proficiently detecting as minuscule as a single target molecule per reaction.
- **Gene Expression Analysis & Biomarker Assessment:** Providing deep insights into cellular mechanisms and disease pathways.
- **Nucleic Acid Extraction & Purification:** Ensuring optimal quality and yield with automated procedures, further verified prior to use.
- **Biodistribution/Shedding Studies:** Deploying expertise in genomics and toxicology, catering to the stringent expectations of regulatory authorities.

Precision, Accuracy, and Sensitivity in every method

Our meticulous validation studies for qPCR encompass precision, dynamic range, detection limit, inhibition monitoring, specificity, selectivity, matrix effect, stability, and extraction yields, ensuring the reliability of the results. With ddPCR, we bring into play the utmost sensitivity and precision, propelling your R&D endeavors with absolute quantification, especially crucial for low-abundance transcripts.

Comprehensive Molecular Biology Services at Celerion

- **Biomarker Assessment:** From mRNA expression analysis as pharmacodynamics response to ex vivo mRNA profiling in tissue.
- **Reporter Gene Assays, Genomic & Plasmid DNA Isolation:** Ensuring optimal data for gene expression studies.
- **Biodistribution and Shedding Studies:** Utilizing our expertise and technological excellence to conduct accurate and sensitive studies across various matrices.
- **Custom Assay Development and validation:** Involving feasibility studies, development, validation, and biological sample analysis, underpinned by GLP study designs and reporting.



Unlock the world of molecular analysis with Celerion's expertise. We simplify complex processes, offering premium service using state-of-the-art tools like qPCR and digital PCR and scientific excellence. We ensure robust, precise and compliant results. Let's accelerate your drug development journey together.

Sample Integrity from Collection to Result

- **Ensuring the Integrity of Every Sample:** At Celerion, we place paramount importance on preserving the integrity of every sample, recognizing that the accuracy of our analysis is directly linked to the quality of the sample collection and analysis.
- **Optimal Protocols:** Our optimized sample handling protocols and clinical-site training ensure specimens are carefully treated from collection through to analysis.
- **Validation:** Quality control samples are tested for the intended storage and shipping conditions to proactively validate our pre-analytical sample handling processes.
- **Quality Assessment:** The quality and yield of extracted nucleic acid samples are rigorously assessed, ensuring they meet the stringent criteria necessary for downstream analyses.

Your Partner in Nucleic Acid Therapeutics Development

Celerion is not only a bioanalytical service provider. With us, you join a partnership where your innovative modalities are paired with our scientific insights, regulatory expertise, and multi-modality experience.

Celerion, Where Innovation Meets Scientific Rigor

Celerion empowers your therapeutic developments with a foundation of scientific ingenuity, regulatory validity and reliability, ensuring your studies are both robust and regulatory compliant.