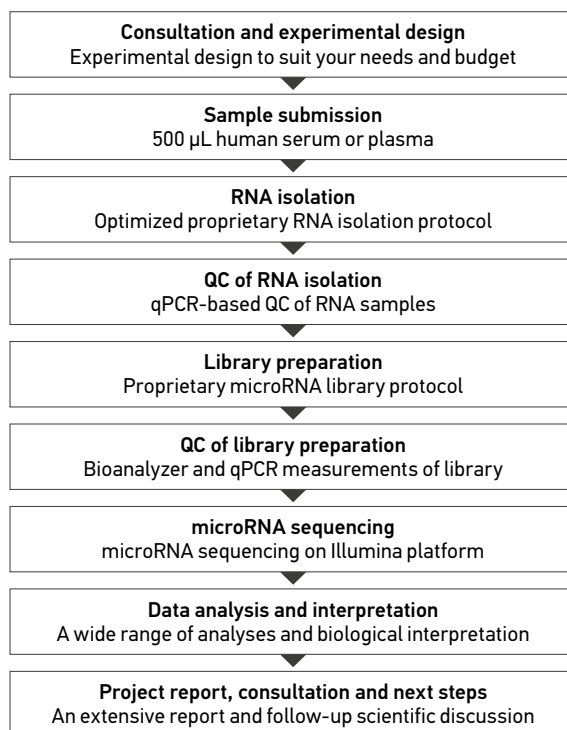


Reliable Biofluids microRNA sequencing

A complete microRNA-seq service for serum and plasma samples

Get a complete sample-to-answer sequencing service from the people who pioneered microRNA biomarker discovery in biofluids.

- High quality data with >80 % mappable reads and a fast 4-6 week turnaround time
- Proprietary protocols for RNA isolation and library preparation optimized for serum/plasma samples
- Rigorous QC at every step, developed for biofluid microRNA including hemolysis test
- Performed by a scientific team with years of experience in handling RNA from biofluids
- Scientific consultations with our Ph.D. level scientists throughout the project
- Comprehensive data analysis with report including publication-ready figures and tables
- Validate your results on Exiqon's ultra-sensitive microRNA qPCR system



exiqon.com/biofluids-ngs

EXIQON
Seek Find Verify

A complete NGS service adapted to your needs

Exiqon's Biofluids microRNA NGS service covers every step in the process from experimental design to biologically meaningful interpretations of your results. We offer everything from an initial consultation with our expert scientists to define the experimental design, to a comprehensive final report. All experiments are carried out in our state-of-the-art laboratories using the latest sequencing technologies.

Data and results from your microRNA profiling project will be delivered within 4-6 weeks of RNA QC including a detailed report with publication-grade illustrations. Our team of scientists will guide you through your results and make suggestions on how to proceed to get the most out of your samples.

Experts in microRNA profiling from serum and plasma

Exiqon pioneered microRNA biomarker discovery in serum and plasma and knows what the challenges are and how to overcome them. Over the years, we have performed thousands of RNA extractions and expression profiling experiments from biofluids.

We have developed protocols specifically designed for microRNA sequencing of serum/plasma samples. RNA isolation and library preparations are performed according to our internal guidelines to give optimal sequencing data with high mapping percentages, even from clinical serum/plasma samples.

Exiqon Services follow a strict set of QC protocols throughout the project to ensure top quality results. RNA isolation is monitored using a qPCR-based method that allows us to check for microRNA content, inhibition and hemolysis. Bioanalyzer and PCR measurements on the library are performed for more precise control of the samples. The reproducibility and linearity of the sequencing data is checked using the comprehensive set of 52 ExiSEQ NGS Spike-ins. QC results are included in the final report.

Exiqon's microRNA PCR Services can validate your results using our world-leading miRCURY LNA™ Universal RT microRNA PCR system. This means that you can be confident that your results are a true representation of the contents of your sample.



Top 5 tips for successful microRNA NGS in serum/plasma

MicroRNAs are stable in liquid biopsies and hold great promise as minimally invasive biomarkers. However, performing microRNA sequencing in biofluids is challenging.

Exiqon has extensive experience working with biofluids. Here we highlight some of the most important factors to consider in order to ensure reliable microRNA NGS results from biofluids.

- 1. Design the optimal experiment**
Prioritize biological replicates over technical replicates, and consider a pilot study.
- 2. Use best practice sample collection**
Avoid heparin collection tubes, and follow our recommended sample collection and storage protocols.
- 3. Avoid biased results due to hemolysis or cellular contamination**
Spin to remove cells before freezing, and perform a hemolysis QC.
- 4. Use QC procedures optimized for biofluids**
Standard RNA QC is not reliable for biofluids. Use qPCR based sample QC and sequencing data QC.
- 5. Ensure reads are reliable**
Use RNA isolation and library preparation protocols optimized for biofluids. Always validate your results by e.g. qPCR.

Read the complete Top 5 Tips at

exiqon.com/biofluids-ngs

Our ambition. Your advancement.

Our ambition is to provide the world's best RNA technologies and services. So we can help you advance science.

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