

miRCURY LNA™ Universal RT Serum/Plasma Focus microRNA PCR Panels

At a glance

- Optimal coverage – most comprehensive platform on the market
- Excellent sensitivity – profile all microRNAs on the panels using just 20 µl serum/plasma
- Exceptional accuracy – reliable detection of microRNAs starting at just 5 microRNA copies
- Proven track record – fully experimentally validated on thousands of clinical serum/plasma samples
- High compatibility – 96 and 384 well formats compatible with most real-time PCR instruments
- Fast and easy – go from samples to results in just 3 hours without the need to pre-amplify

Product coverage

The miRCURY LNA™ Universal RT microRNA assays on our Serum/Plasma Focus panel have been carefully selected based on our vast number of in-house analyses of microRNA expression in blood serum and plasma samples as well as on a number of peer-reviewed papers. The panel contains 179 microRNA primer sets including 7 candidate reference microRNAs that can also be used to assess RNA quality in terms of RNA inhibitors, hemolysis and contaminants. In addition, the panel contains control assays for 5 synthetic RNAs that may be used for monitoring the cDNA synthesis or RNA purification. Finally, each panel contains an inter-plate calibrator in triplicate and an empty negative control.

Exiqon's Serum/Plasma Focus microRNA PCR Panel is available as two 96-well plates or one 384-well plate (with two replicate panels). The panels are Ready-to-Use (one 10µL reaction per well) and plates compatible with most real-time PCR instruments are available.

The miRCURY LNA™ Universal RT microRNA PCR system offers an excellent combination of performance and ease-of-use as it combines a universal RT (one first-strand cDNA synthesis) reaction with the high sensitivity and accuracy obtained with LNA™-enhanced PCR primers (Figure 1 and 2).

Figure 2. Overview of the miRCURY LNA™ Universal RT PCR workflow. Go from sample to results in just three hours. Pre-amplification is not required. Use the miRCURY RNA Isolation kit- Biofluids for optimized RNA purification from serum and plasma.

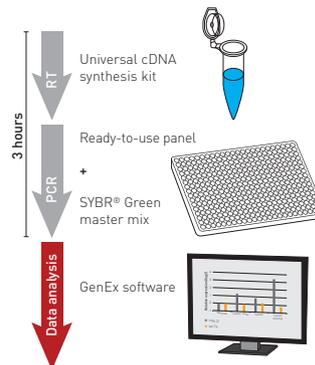


Figure 1. Circulating microRNA expression profile from a plasma sample. RNA was purified using the miRCURY RNA Isolation kits -Biofluids and subsequently profiled on the Serum/Plasma Focus microRNA PCR Panel.

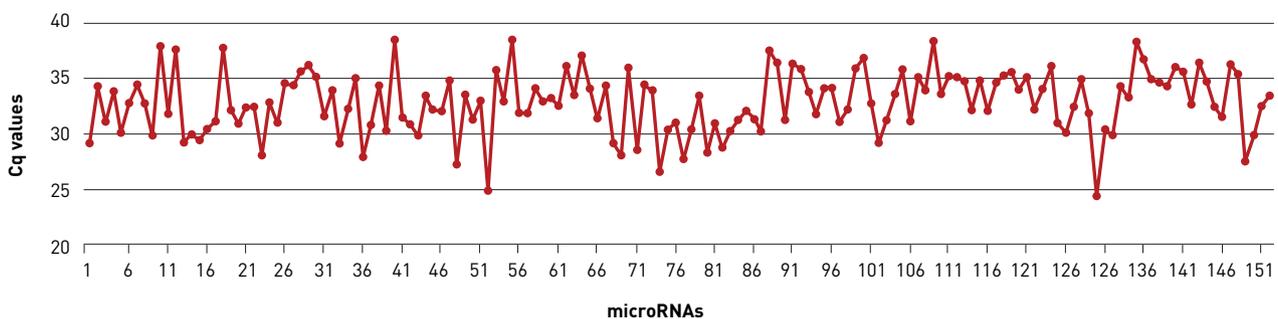
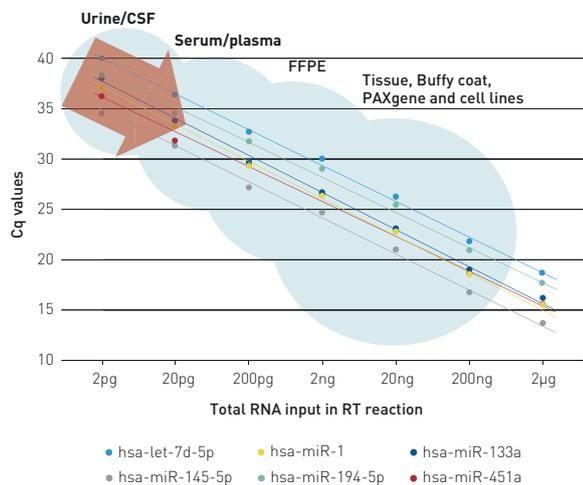


Figure 3. The ideal qPCR system for challenging samples. Reliable profiling in the high Cq range is a key feature required for working with samples with low abundance of microRNAs like biofluids. The new ExiLent master mix allows sensitive and reliable profiling at Cq values up to 37 due to its remarkably low residual activity and virtual absence of background signal.



Exiqon's microRNA qPCR system is ideal for serum/plasma

The miRCURY LNA™ Universal RT microRNA PCR system is ideal for quantification of microRNA in challenging samples like serum and plasma (Figure 3 and 4). Superior sensitivity and accuracy allows profiling of all microRNAs on the panel from minute sample amounts (20µL serum/plasma) without the need for pre-amplification.

We have taken advantage of Exiqon's pioneering clinical diagnostic work on microRNA expression profiling in serum and plasma when designing the panel. Over 1 million in-house and collaborative data points from a range of samples have been used in the selection of relevant microRNAs. This includes samples from healthy individuals as well as individuals with diseases including various cancer types, neurological disorders, allergies, diabetes, inflammation etc. The panel has been thoroughly validated for use with clinical samples and is well-suited for a clinical workflow as it is automatable and fully compatible with standard FDA-approved qPCR equipment.

Exiqon offers a complete product range for microRNA profiling in serum and plasma including the miRCURY™ RNA Isolation Kit - Biofluids for optimal RNA purification as well as RNA spike-in Kit and microRNA QC PCR Panel for sample and data quality control.

Contact information

Outside North America

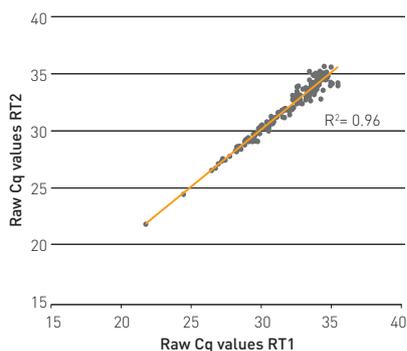
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Figure 4. Excellent reproducibility from serum. Raw Cq values from two separate RT reactions (RT1 and RT2).



Learn more about microRNA in serum and plasma at www.exiqon.com/biofluids

Ordering information

Focus microRNA PCR Panel	Product description	Product no.
Serum/Plasma Focus , V3, 96 well Ready-to-Use plates	4 Panels in 8 PCR plates. Each panel contains LNA™ primers for 179 human serum/plasma microRNAs, control and reference assays*	203836-203839
Serum/Plasma Focus , V3, 384 well Ready-to-Use plates	4 panels in 2 PCR plates. Each panel contains LNA™ primers for 179 human serum/plasma microRNAs, control and reference assays*	203842-203843
Reagents	Product description	Product no.
Universal cDNA Synthesis Kit II	Polyadenylation and cDNA synthesis kit (8 to 64 rxns)	203301
ExiLent SYBR® Green master mix, 2,5mL	250 rxns of 20µL or 500 rxns of 10µL	203402
ExiLent SYBR® Green master mix, 20mL	2000 rxns of 20µL or 4000 rxns of 10µL	203420
RNA Spike-In	Product description	Product no.
RNA Spike-in kit, UniRT	miRCURY LNA™ Universal RT microRNA PCR, Set of two vials with synthetic RNA spike-in templates for qPCR control (UniSp2, UniSp4, UniSp5 RNA Spike-in template mix and cel-miR-39-3p RNA Spike-in template)	203203
Exiqon GenEx 6 Software	Product description	Product no.
Pro and Enterprise versions	Exiqon GenEx, qPCR analysis software, industrial and academic licenses available	207013-207039

For updated product information go to www.exiqon.com/serum-plasma-miRNA-qPCR

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