NANO screen

Screen smart. Waste less. Scale with confidence.

Discovery-scale LNP formulation screening built for the path to GMP.



FR-JET® Technology | Intelligent design | Low dead volume | Full GMP pathway | Auto cleaning

KEY BENEFITS

— Minimum material loss at screening scale

Low dead volume · 500 µL minimum sample

Minimal flush volume per sample (~200 µL), a fraction of what incumbent platforms consume. Screen more candidates without burning irreplaceable material.

— Smart design that makes every run feel safe

Mixer plug and play ·

Scan, load, run. The integrated scanner reads mixer configuration and automatically adjusts process settings. No manual selection, no setup errors, no risk of operating outside process limits.

Intuitive software guides every step. Reproducibility built in - not operator-dependent.

— Automated cleaning between every run.

Automated cleaning · Run-to-run consistency

A cleaning protocol can be performed by the user or automatically follows every process run. Turnaround accelerates. Cleaning consistency is guaranteed by the system. Carryover risk is eliminated without adding hands-on time.

— Designed around the researcher, not the instrument.

Intelligent UX design · Minimal training required

Intuitive software, automated cleaning, and intelligent UX design combine to remove every decision point that causes errors. Correct operation is the path of least resistance. For a first-time user and a seasoned expert alike.

— FR-JET® Technology. Your mixer. Your choice.

Reusable or extended single-use

High-frequency screening campaign? Switch to reusable metal FR-JET® mixers and eliminate per-run costs entirely. Prefer convenience? Extended single-use mixers are always available. Same instrument, same mixer geometry, same results - no compromise either way.

— Beyond LNPs - one platform for your entire formulation pipeline

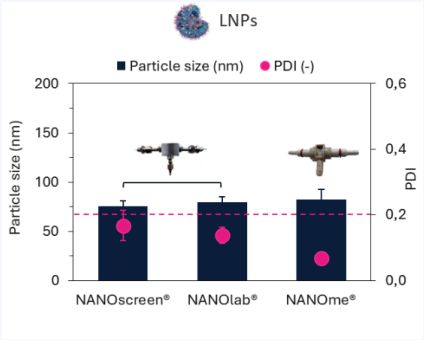
Polymeric & LNP compatible · High-concentration ready

Run polymeric nanoparticles and LNPs on the same instrument, including high-concentration formulations that challenge most screening platforms. Tuning the mixing process helps identify the ideal mixing conditions for each formulation type - so the platform adapts to your pipeline, not the other way around.

— Scale-up continuity

Direct GMP pathway · Pre-clinical ready

The FR-JET® mixer is identical across NANOscreen®, NANOlab®, NANOme®, and NANOus®. Parameters transfer directly: no geometry change, no re-optimization. This is top-down process technology: you produce with the very same technology you'll later use in the clinic and beyond.



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LEON ENABLING NANO NOW

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START RIGHT START WITH LEON

NANOscreen® is a user-friendly system designed for formulation screening and identification of an early-stage product formulation with minimal material losses. The NANOscreen®, augmented by the FR-JET® mixing technology, in combination with our intuitive user interface, enables precise control over all relevant process parameters.

Technical data

Scope	Non-clinical pharmaceutical nanoparticle formulations*
Features	– FR-JET® mixer technology (multi- or extended single-use) – FR-JET® system offers a modular platform that allows tuning the mixing process – FR-JET® geometry resists fouling and material aggregation, avoiding the channel clogging common in microfluidic mixers – Operated by high-precision syringe pumps – Export function for process parameter logs – In-line dilution available
Operation parameters	– Flow rate of single pump: max. 100 mL/min – Total flow rate: max. 130 mL/min* (FRR 3:11) – Pressure rating ≤ 20 bar – Samples can be dispensed automatically – Minimized waste volume
Output	– Minimum product volume: 500 µL – Maximum product volume: 20 mL*

*depending on flow rate ratio

LEON
ENABLING NANO NOW

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SCAN ME