

Preventive maintenance

Ensure optimal performance of your iCELLis™ Nano bioreactor system

Preventive maintenance (PM) reduces the risk of unexpected breakdowns, helps keep your schedule on track, and ensures your equipment remains properly calibrated. PM is built into our equipment design process for long-term reliability and backed by extensive global experience. Our certified service engineers are trained to deliver expert PM tailored to your system. On completion, we provide detailed service reports for full traceability.

Comprehensive system assessment

During PM, our qualified engineers perform comprehensive tests and verifications to ensure your iCELLis™ Nano bioreactor system meets original factory specifications. They replace any necessary components using quality parts from Cytiva. These procedures are based on protocols optimized during system design and reflect the same functional and quality checks applied during assembly and pre-delivery validation.

Tests and inspections

System inspection	System inspection (exterior)
Functionality verification	Filter heater
	Bioreactor temperature control
	Bioreactor agitation
	Perfusion and alkali base pumps
	Biomass system (if applicable)
	Bioreactor pH control
	Gas flow rate (CO ₂ , O ₂ , air)
	Dissolved oxygen (DO) probes
Verification and adjustments	Gas handling module

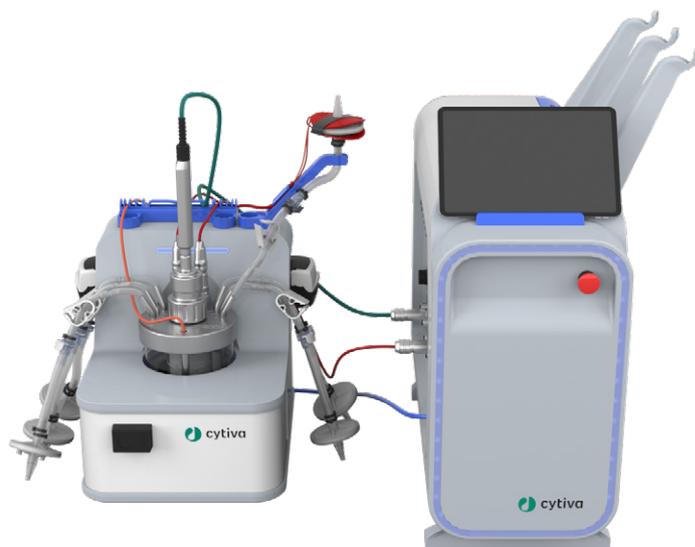


Fig 1. iCELLis Nano bioreactor system.

Parts replaced

Filter
Bioreactor seal
Perfusion pump motors
Filter for mPath™ benchtop bioreactor controller

Documentation

We provide a standardized set of documentation and test results after each service or repair. This ensures full traceability, saves time, reduces costs, and supports compliance in regulated environments. Our service engineers document every PM visit and issue a service report upon completion.

Frequency

System usage	Type of PM visit
Normal usage: up to 2000 hours per year	One PM visit every second year
High usage: 2000 to 4000 hours per year, or use with aggressive solvents	One PM visit annually
Continuous usage: more than 4000 hours per year	Two PM visits annually

What we do and why it matters

Main components	Outcomes
Functional testing, inspections, and calibration	Ensures reliable accuracy of testing data and system functionality.
Wear-and-tear replacement	Minimizes risk of unexpected failure. Extends the life of your equipment.
As-found/as-left testing	Ensures equipment runs according to specifications after completed PM.
Documentation	Signed PM service report upon completion.

An integral part of our service plans

To maintain consistent system performance of your iCELLis Nano bioreactor system, PM is included in all our service agreements.



Extended
life cycle



Service
traceability



Maximized
productivity

Learn more about how our service agreements can support your operations at cytiva.com/equipment-services

cytiva.com

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