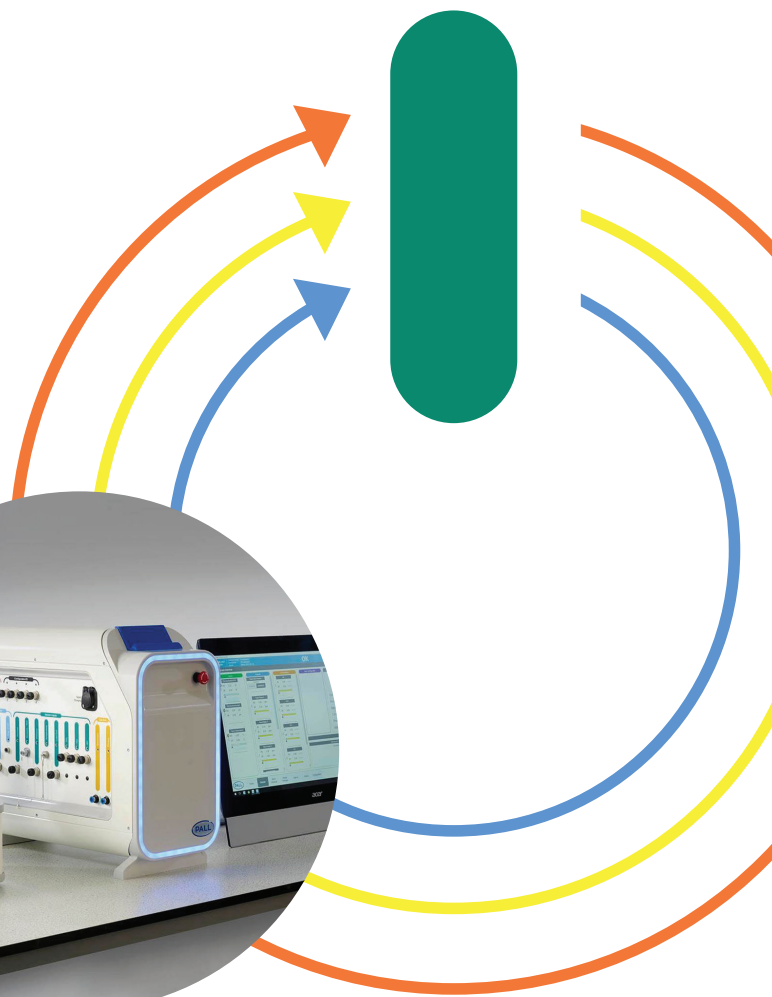


# OptiRun™ Service solutions




Ensure optimal performance of your iCELLis® Nano system with preventive maintenance



We understand the criticality and importance of your bioproduction processes, which is why we have built a world-class service team to maintain your complex equipment and keep it in prime condition to help you optimize your workflow productivity, protect your investment, and support you to stay compliant.

Regular preventive maintenance (PM) is critical to optimal outcomes and reduces the likelihood of unexpected breakdowns thus minimizing downtime, while maintaining schedule and product quality. Additionally, it minimizes unexpected costly failures, and ultimately prolongs your equipment's lifecycle.

Our service engineers are trained, certified, and experienced with deep knowledge and understanding to take complete care of your iCELLis® Nano system.

-  **Extended lifecycle**
-  **Service traceability**
-  **Maximized productivity**

## Cytiva PM supports your bioproduction needs.

### Main components of PM

**Functional testing, inspections, and verification**

**Wear-and-tear change**

**As-found/as-left testing**

**Documentation**

### Outcomes you can expect from PM

Ensure reliable accuracy of testing data and system functionality

Minimize unexpected failure risk; extend the life of your equipment

Ensure evidence equipment runs according to specifications after completed PM

Enable traceability with signed preventive maintenance service report upon completion of PM

# Comprehensive testing and inspections

During preventive maintenance, our qualified engineers run necessary tests and verifications to keep your equipment to factory specifications and replace any necessary components using quality parts from Cytiva. These tests were designed and optimized throughout the development of the equipment and reflect functional tests performed during assembly, as well as quality tests performed prior to delivery to your site.

## Comprehensive set of tests and inspections

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

## Quality parts replaced during PM

<b>Parts replaced</b>	Filter
	Bioreactor seal
	Perfusion pump motors
	Filter for mPath™ Benchtop Bioreactor Controller

## Documentation

Cytiva provides a standardized set of documentation and test results after the service or repair. This saves time, reduces costs, and supports compliance when working in a regulated environment. The service engineer documents each PM visit and provides a service report upon completion of the visit.

## Standard recommended PM frequency for iCELLis® Nano system

One preventive maintenance visit every year after warranty expiration.

## PM, an integral part of our service agreements

To ensure the continued performance of your system, we build preventive maintenance into all our service agreements. Go to [cytiva.com/service](https://cytiva.com/service) to learn more about our OptiRun™ service agreements.

## cytiva.com

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