

# Preventive maintenance

Ensure optimal performance of your Xcellerex™ 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 Xcellerex™ 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

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Valve manifold
Mass flow controller test
Pressure verification
Pump speed test
Vessel temperature verification
Filter temperature test
Condenser temperature test
Agitator alignment verification and speed test
pH signal test and DO signal test
Vessel weight test
UPS test
Emergency stop test
Light stack test
Cabinet air filter test (not applicable for Xcellerex XDR 10)
Mechanical inspections

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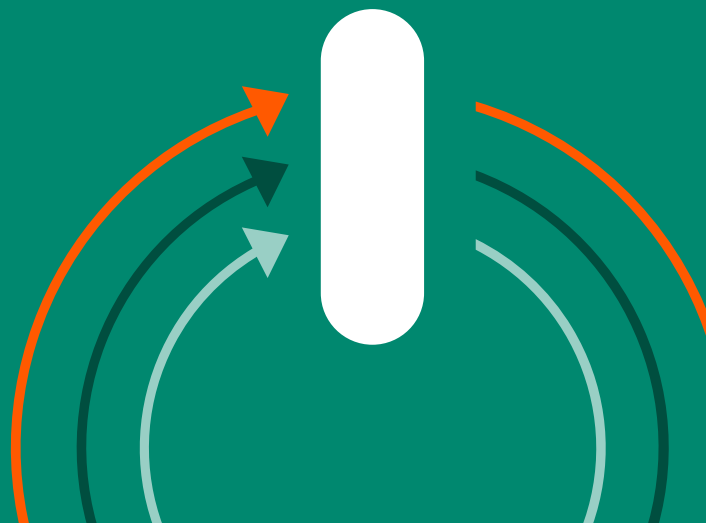


Fig 1. Xcellerex XDR-2000 bioreactor system.



Fig 2. Xcellerex XDR-10, XDR-50, XDR-200 bioreactor systems.

## 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.

## 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 unexpected failure risk. Extends the life of your equipment.
Documentation	Signed PM service report upon completion.

## An integral part of our service plans

To maintain consistent system performance of your Xcellerex 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](https://cytiva.com/equipment-services)

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