

Preventive maintenance

Ensure optimal performance of your Allegro™ single-use stirred tank (STR) 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 Allegro™ STR 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

Functionality verification

- System start-up
- Emergency stop functionality
- Pressure transmitter functionality check and verification
- Bio container overpressure functionality and measurement
- Air or CO₂ evacuation and gas overlay mass flow measurement
- Air, CO₂, O₂, and N₂ mass flow measurement
- Visual inspection of pumps and rotational speed verification
- Exhaust filter heater temperature measurement
- Weigh frame/load cell functionality and measurement
- Interlock microswitch functionality

- Agitation rotation speed measurement and direction
- Level sensor functionality checks (if applicable/equipped)
- Temperature control unit (TCU) filter cleaning and check (Lauda TCUs only)
- Dissolved oxygen (DO) and pH sensor measurement
- Temperature sensor accuracy check

Parts replaced

- Two single-use polymer optical fiber (POF) pH and DO cables
- Two electrical cabinet air filter media

Note: Parts replaced during preventive maintenance may vary from model to model. If your system is not covered by a Cytiva service agreement, any part replaced other than a wear part will incur additional charges.

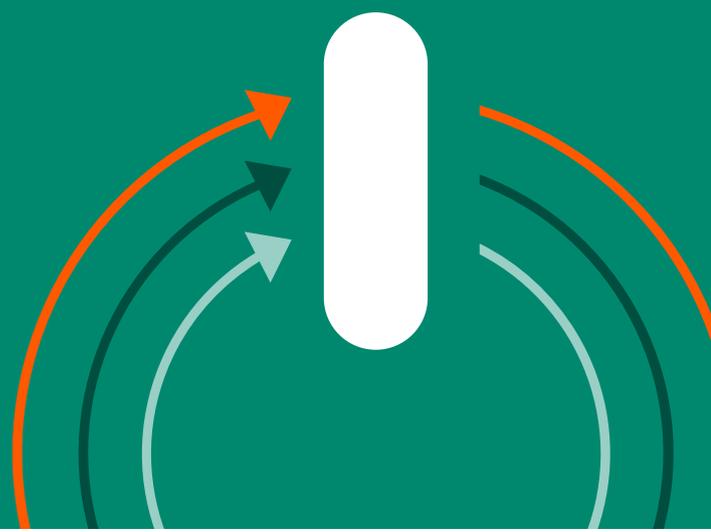


Fig 1. Allegro STR 2000 L bioreactor system.

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

Our standard recommendation is one PM visit per year. Your service team can advise on the right frequency for you.

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.
As-found/as-left testing	Ensures evidence equipment runs according to specifications.
Documentation	Signed service report after completion.

An integral part of our service plans

To maintain consistent system performance of your Allegro STR 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

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