

Biopharma
Program



ECOLAB[®]

Integrated Contamination Control Solutions for Biopharma



**Accelerate
Speed to Market.
Ensure Compliance.
Optimise Operations.**

GLOBAL EXPERTS IN
CONTAMINATION CONTROL



The Reality of Biopharma Manufacturing

Biopharmaceutical production operates under intense scrutiny. Regulatory demands are growing and changing, and every process stage carries risk.

Contamination control is not just a compliance requirement - it's critical for operational efficiency, speed to market, and patient safety.

Manufacturers face increasing challenges

- Regulatory complexity across global markets, requiring precise documentation and validated processes.
- Audit pressure that demands clear, defensible trails and readiness at all times.
- Throughput demands driven by competitive timelines and patient needs.
- Integration gaps between manual processes and digital systems, slowing decision-making and increasing variability.
- Sustainability trade-offs between water and energy consumption in stainless-steel systems and plastic waste in single-use environments.

These challenges also get amplified in emerging modalities, where open systems, compressed development timelines, and high contamination risk require specialised expertise and proven contamination control strategies.

The Cost of Inaction

When contamination control strategies fall short, the consequences are significant

- Failed audits and regulatory setbacks**
- Delayed batch release and extended downtime**
- Loss of patient trust and brand credibility**
- Increased operational costs**
- Lost speed to market**

The Ecolab Approach



Ecolab Life Sciences delivers a fully integrated Biopharma program that combines contamination control chemistry, equipment, digital solutions, and global expertise:



Ensure audit readiness with validated solutions and expert regulatory support



Improve operational efficiency through process optimisation and automation



Accelerate time to market by streamlining contamination control processes, cleaning validation and minimising downtime

Solutions that Drive Results

Partner with Us



Klercide™ Manual Cleaning and Disinfection Solutions

GMP-validated sterile and non-sterile cleaning and disinfection solutions for all grade cleanrooms. Low-residue chemistry can lessen rinse steps and reduces contamination risk.

Global Technical Consultants (GTC)

Expert support for validation planning, risk assessments, process optimisation and regulatory compliance, critical during startup phases, scale-up, finding efficiencies or recovery scenarios.



Transform your Contamination Control Strategy (CCS)

Contact Ecolab Life Sciences today to accelerate your speed to market, optimise critical processes, and ensure compliance without compromise.



Faster, more efficient manufacturing



Reduced labour and energy costs



Bioquell™ Hydrogen Peroxide Vapour (HPV)

Validated HPV bio-decontamination systems and services, including isolators with built-in HPV, deliver fast, reliable contamination control. Automated cycles reduce manual steps and variability, helping ensure GMP compliance while accelerating changeovers.

Digital Solutions

Logbooks, real-time dashboards, cleaning validation tools, and predictive analytics for actionable insights and faster decision-making.



Improved contamination control and cleaning efficiency



COSA™ CIP Solutions

Validated cleaning chemistry for product contact surfaces, including tanks, piping, and production lines - ensuring compliance and reducing downtime with efficient residue removal at lower concentrations and shorter contact times. Optimised for stainless steel and hybrid systems.

Purolite™ Resins

Chromatography resins for downstream purification of biologics. High-performance resins remove impurities, support product safety, and enable scalable manufacturing.



Supports sustainability goals



Support Sustainability Goals

Biopharma manufacturers face a dual challenge

- Stainless-steel systems consume large volumes of water and energy for cleaning and sterilisation.
- Single-use systems generate significant plastic waste.



Ecolab helps you minimise both impacts



Low-residue chemistry reduces rinse steps, cutting water and energy use in stainless-steel environments.



Validated cleaning protocols optimise CIP cycles for efficiency and sustainability.



Digital tools enable real-time monitoring and predictive analytics to prevent unnecessary resource consumption.



Process optimisation expertise helps balance sustainability goals with compliance and productivity.

Scan to find out more about



Ecolab's Change
Management
program



Ecolab's Bioquell
solutions for
Cell & Gene Therapy

For information about our **Biopharma Program**, speak to your **Ecolab Account Manager** or visit ecolab.com/biopharmaprogram

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