

Contamination Remediation
& CAPA Program



ECOLAB[®]

Restore Control when it Matters Most



**Expert remediation &
CAPA for faster recovery
and reduced risk**

GLOBAL EXPERTS IN
CONTAMINATION CONTROL

When a Contamination Event is Detected, Act Quickly and with Certainty

When contamination disrupts production, every hour matters. Ecolab's Contamination Remediation & CAPA Program mobilises expert teams, validated technologies, and a proven process to stabilise operations, identify root cause, and help establish effective CAPAs to prevent recurrence, so you can restore control when it matters most.



Microbiological Contamination

EM excursions & objectionable organisms: Contamination events tied to mould and bacterial spore outbreaks, personnel, surfaces, equipment, or material transfer processes.

Biofilms: Persistent contamination within equipment requiring targeted removal and validation.



Facility Failure

HVAC/HEPA failure: Air handling deviations, pressure differentials, or filtration integrity issues.

Equipment failure: Biofilm or contamination of water systems with potential to take systems offline.

Natural disaster: Flooding, power outages, or environmental intrusion that compromises cleanroom control.

Our Proven Process to Restore Control

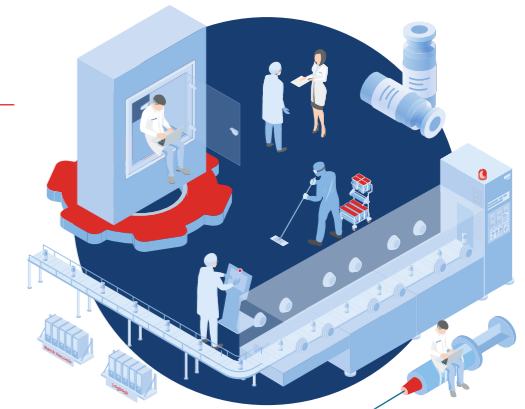
Behind every successful remediation is expertise you can trust. Ecolab's Global Technical Consultants are industry specialists with experience in Root Cause Analysis (RCA) and microbiological investigations, equipped with the tools and knowledge to tackle complex contamination challenges.

When a contamination event hits, our experts are on-site fast, ready to facilitate investigations and RCAs, and guide your team through every step of remediation and CAPA identification and implementation.

STEP 1

Expert Consulting

We assess the immediate situation, scope, and risk, then initiate a structured investigation to uncover underlying causes. This includes a thorough Root Cause Analysis (RCA) to identify contamination sources and contributing factors. Based on these findings, we collaborate with your team to build a proposed CAPA plan that prioritises containment, verification, and sustainable change.



STEP 2

Rapid Response

We leverage our Rapid Bio Decontamination Service (RBDS) team (the only RBDS service available globally) to mobilise quickly, restoring safety and control with whole room bio-decontamination.

STEP 3

CAPA Implementation

We co-execute corrective actions, align SOPs and training, and deploy our best-in-class program, tailored for your operation, to prevent future excursions through chemistry, equipment, preventative services, and software solutions - an integrated portfolio with demonstrated ROI.



STEP 4

Transition to Routine Control

Our experts use our proven Change Management program to implement these recommendations, easing the burden of change and performing effectiveness checks to maintain changes.

Help Prevent Recurrence with the Right Solutions

Remediation is only the first step. Long-term success means eliminating root causes and building safeguards that keep contamination from coming back. Our integrated solutions help you strengthen your Contamination Control Strategy (CCS) and maintain compliance so you're ready for whatever comes next.

Measured Outcomes, Documented Proof



Water Treatment Solutions

- ▼ **Pre treatment solutions:** Protect downstream processes
- ▼ **Boiler & cooling water programs:** Reduce microbial risk and equipment stress
- ▼ **Wastewater treatment:** Manage environmental compliance and plant hygiene holistically

Digital Solutions

- ▼ **CLEEN by Ecolab** Software platform to digitise core manufacturing activities, integrate data across systems (ERP/LIMS/QMS), and provide actionable signals in real time whilst ensuring data integrity



Contamination Control Solutions

- ▼ **Manual & CIP/COP cleaning and disinfection:** High performance chemistries to remove contamination, residues and biofilms across surfaces and equipment
- ▼ **Automated bio-decontamination:** Systems and services for rooms, equipment, and integrated needs, including Ecolab's unique isolator
- ▼ **Validation & change management services:** Documentation, protocols, and training that withstand regulatory review

Pest Elimination Services

- ▼ **Customised, risk-based plans:** Integrated monitoring
- ▼ **Ecolab service specialists (no subcontractors):** Consistent controls and documentation readiness



Faster, safer restart with validated remediation



Inspection ready documentation with documented CAPA and required validation



Sustained compliance through SOP alignment, training, and effectiveness monitoring



Lower total cost of disruption by minimising downtime and preventing repeat events



Restore Control. Prevent Recurrence.



Faster, safer
restart



Regulator ready
documentation



Sustained
compliance

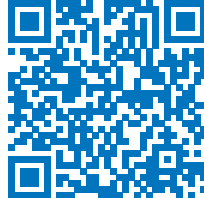


Lower total cost
of disruption

Scan to find out more about:



Ecolab's Change
Management
program



Ecolab's Validex™ program



Ecolab's Best-In-Class
program

For information about our Contamination Remediation & CAPA Program,
speak to your Ecolab Account Manager or visit ecolab.com/caparemediation

WORLDWIDE HEADQUARTERS

1 Ecolab Place
St. Paul, MN 55102
USA

www.ecolab.com/lifesciences

EUROPE HEADQUARTERS

Ecolab Europe GmbH
Hofwiesenstrasse 349
CH-8050 Zürich, Switzerland

www.ecolablifesciences.com

