

BIOQUELL RAPID BIO DECONTAMINATION
SERVICE APPLICATION

Commissioning Areas After Construction

Eliminate bioburden, ensure environmental integrity
and commence operations quickly

Eliminate
organisms from
every exposed
surface in an
enclosed area

During construction or renovation procedures there is a high risk of introducing a wide range of environmental contamination into a facility.

Before commissioning, this contamination needs to be eliminated from all critical areas to ensure no disruption to operations later. Traditional manual cleans can be labor intensive, lengthy and have limited efficacy in comparison to automated solutions.

Bioquell Rapid Bio Decontamination Service (RBDS) provides a fast, fully managed approach with hydrogen peroxide vapor decontamination technology to eliminate bioburden before commissioning a new area.

FULLY MANAGED AND DOCUMENTED PROCESS



Each RBDS deployment is managed and carried out by trained Bioquell experts working to an agreed project plan, freeing up site personnel for other critical activities during the final stages of commissioning. Upon the completion of the deployment, a certificate of decontamination and a full report is issued which documents the process steps and the results of all BIs and Chemical Indicators (CIs) for use in audit purposes.

PROVEN BROAD SPECTRUM EFFICACY



Backed by over 20 years of proven efficacy, the Bioquell Hydrogen Peroxide Sterilant eliminates bioburden from all exposed surfaces in the target area and does not need to be tailored to a specific threat. Each RBDS deployment is verified using BIs and CIs for proof of 6-log sporicidal bioburden reduction.

GET INTO PRODUCTION FAST



The rapid and scalable nature of RBDS allows for the decontamination of an entire facility to be performed overnight. The residue-free process and real-time verification using CIs allows newly constructed or renovated spaces to open quickly with confidence.

RENOVATED AREAS OF USE



- ▲ Biopharmaceutical manufacturing areas
- ▲ GMP/GLP Laboratories
- ▲ Bio-safety labs of all levels
- ▲ Biomedical research facilities
- ▲ Room and zone decontamination
- ▲ New hospital openings - patient rooms, wards and operating theatres

CASE STUDY

Biological Decontamination of a **Newly Renovated Animal Research Facility** using Hydrogen Peroxide Vapor

University College Cork (UCC), Ireland



EXECUTIVE SUMMARY

An animal research facility at University College Cork Ireland required high-level decontamination to remove any potential bioburden from the two story facility after the refurbishment was completed, and before the facility was going live.

The Bioquell Rapid Bio Decontamination Service (RBDS) was chosen to perform a 6-log hydrogen peroxide vapor decontamination of the entire facility.

The Bioquell RBDS deployment achieved 100% deactivation of all biological indicators (BIs) and was fully validated and documented for auditing and regulatory inspections allowing UCC to rapidly bring the facility into service after the process was complete. UCC have subsequently purchased a suite of Bioquell equipment to perform regular decontamination cycles within the facility.

BIOQUELL RBDS DECONTAMINATION OF NEW FACILITY PRIOR TO OPENING

Decontamination of **50 rooms** for the **2,500m³** facility in a single cycle was required to prevent cross contamination from HVAC ducting

Bioquell RBDS commissioned to ensure a **6-log sporicidal kill**

BIs* placed in **94 room locations** and CIs for instant indication of **successful decontamination**

A total of **21 Bioquell hydrogen peroxide vapor generators** positioned on two floors decontaminated the space

Following a seven day incubation period, BIs indicated a **6-log sporicidal reduction** had been achieved



THE **6-LOG SPORICIDAL REDUCTION** ACHIEVED RESULTED IN UCC PURCHASING BIOQUELL EQUIPMENT TO PERFORM **REGULAR DECONTAMINATION CYCLES**

**Geobacillus stearothermophilus*

Bioquell

Rapid Bio Decontamination Service (RBDS)



A scalable bio-decontamination option using 35% hydrogen peroxide vapor



6-log sporicidal kill on all exposed surfaces



Available for scheduled or emergency response situations



Resume operations immediately with no additional wipe downs or residues left behind

ABOUT ECOLAB AND BIOQUELL

Ecolab Life Sciences supports safety, compliance and operational efficiency for global pharmaceutical and personal care manufacturers by delivering a comprehensive programmatic approach to contamination control, cleaning and disinfection.

Our end-to-end contamination control solutions, enhanced by Bioquell technology, allow our customers to have safer products and processes by reducing their risks. Our offerings meet regulatory requirements, support compliance initiatives, and realize operational efficiencies while achieving cost savings for our customers worldwide.

Bioquell RBDS is designed to get your critical manufacturing facility back online as quickly and effectively as possible. Visit www.bioquell.com for additional details

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