

Cold Room Cleaning and Maintenance Procedure

Introduction

A number of health and safety issues occur in cold rooms. These issues range from mould growth to unsafe use/storage of chemicals to improper storage of research samples. This document reflects the practices that researchers are expected to follow when using cold rooms.

Because many cold rooms are shared between multiple groups, all users must take the appropriate action to resolve the issue.

Prevention of Mould Growth

Mould has been found in many cold rooms. Every surface in a cold room can become quickly contaminated with mould should an improper work practice occur. The result is possible health problems from inhalation of the mould spores, as well as contamination of research materials.

Preventing mould growth in cold rooms is achieved by controlling condensation, moisture, and removing materials contributing to mould growth. The following actions need to be followed in the prevention of mould growth in cold rooms:

- Remove sources of moisture and promptly dispose of damp organic materials appropriately.
- Promptly clean up spilled liquids (i.e. buffers, media). Mould can thrive on any organic medium.
- Report water leaks to Facilities Management by calling 966-4496 or by putting in a Service Request with FMD at <https://facilities.usask.ca/>.
- Do not use the cold room for long term storage of media or culture plates unless they are properly sealed inside plastic bags or containers. They are a haven for mould and bacterial growth.
- Keep door firmly shut. Doors left open can increase the relative humidity in the rooms and promote mould growth.
- Watch for condensation on surfaces. Condensation may be an indication of a loss of containment.
- Remove all cardboard and paper products. Because they are composed of cellulose they are a perfect breeding ground for mould. If some paper products (i.e. kimwipes) are required, place them in a sealable plastic container or plastic bag.
- Regularly clean and bleach any cold room sink to prevent mould coming up from the plumbing. Record and document the cleaning and maintenance in a log.

Cleaning and maintenance of cold rooms

General Cleaning

Regular cleaning schedules for cold rooms (**a minimum of every 6 months**) prevent mould or contamination issues. If the room contains a sink, it is important to regularly clean the sink more often (once a month) to prevent mould growth from the plumbing system. For regular cleaning, use soap and water, or a disinfectant wipe (e.g. Lysol) to wash surfaces. Wear personal protective equipment (PPE), such as safety glasses, disposable gloves, closed toe-heeled shoes, and a lab coat.



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