

Cleaning and Disinfection – Cleaning

Lesson Objectives:

At the end of this lesson, you should be able to list and sequence the various cleaning terms and procedures at Biogen.

Cleaning considerations

Reliable and effective cleaning is paramount at Biogen since cleaning constantly takes place here, and so everyone need also be familiar with the various cleaning terms and processes.

Distinctive terms for cleaning

For the sake of accuracy, it is useful to distinguish between the following commonly used terms:

- To '**clean**' involves using detergents, solvents, or other cleaning agents to remove dirt, impurities, or extraneous matter from particular surfaces. This process, however, does not eliminate most infectious microorganisms;
- To '**disinfect**' means applying chemical products that kill potentially infectious microorganisms as well as some types of spores;
- To '**sterilise**' means using heat or steam, which destroys microorganisms, spores and viruses.

Program and guidelines for cleaning procedures

- The use of non-cleanroom specified cleaning agents is to be avoided.
- DI water (deionised water) is preferable for scrubbing all surfaces, floors, walls, and benches.
- The use of scrubs, rags and powder detergents and surfactants in the cleanroom is prohibited, since these shed particles like woven polyester, which produce shedding or tearing during cleaning.

The use a moveable autoclave multi-bucket mopping system on non-marring wheels, and deep-drawn seamless buckets, is designated for clean- &/dirty-water control.

- Floors are to be damp-mopped using distilled* water daily, before regular work shifts.
- Floors are to be damp-mopped weekly with a clean-room detergent and distilled water, and with a HEPA (high efficiency particulate air) filter vacuum-cleaner.
- Walls are to be vacuumed daily.
- Walls are wiped once, weekly, with a damp clean-room sponge using distilled water.
- Windows and clean-room pass-throughs are to be washed and wiped dry daily with lint-free 70% IPA wipes.
- Ceilings are to be vacuumed daily, wiped with a damp sponge and distilled water weekly, before being vacuum-dried.
- If necessary, ceilings are to be washed with detergent and distilled water to remove any remains.
- All daily cleanings may be performed during regular work shifts.
- Overhang light lenses and troffer light fixtures need be wiped with a damp sponge and distilled water weekly, and then vacuum dried.
- Sticky-mats in the cleanroom should be replaced without hesitation, when showing dirt on it.

* **Distilled water** is water that has been boiled so that it evaporates and then re-condensed, leaving most impurities behind. **Deionised (DI) water** is water that has been treated to remove all ions – typically, that means all dissolved mineral salts are gone.