



Cleaning and Decontamination Manual

This manual covers the fundamental procedures for the cleaning, decontamination, disinfection, and sterilization of centrifuges. These practices are essential to prevent infections and extend the service life of the equipment.

All individuals responsible for handling and reprocessing contaminated items must:



Ongoing Training

Receive adequate and regular training



Protective Equipment

Use appropriate personal protective equipment



Prophylactic Vaccination

Receive the necessary prophylactic vaccines

A proper initial cleaning will significantly reduce the pathogen load and eliminate organic and inorganic residues to facilitate reprocessing. **This step, when performed carefully, is essential to ensure that disinfection and sterilization are successful.**

Key Definitions



Cleaning

Process that removes visible dirt, residues, and organic matter.



Decontamination

Process that reduces the number of contaminating agents on surfaces to safe levels.



Disinfection

Reduction of pathogens on surfaces or inanimate objects using heat, chemicals, or both; it is not very effective against spores, which are mostly removed through mechanical action and rinsing.



Sterilization

Process that eliminates all microorganisms, including spores, ensuring total sterility.

Processes for cleaning, decontamination, disinfection, and sterilization

Before beginning the cleaning processes, the following preventive actions are recommended:



Turn Off and Unplug

Turn off the main switch of the centrifuge and disconnect the power cord.



Personal Protection

Use personal protective equipment such as gloves, masks, and face shields.

As a reference, the appropriate processes are indicated in the table below:

Material	Cleaning		Decontamination	Disinfection		Sterilization
	Option 1	Option 2		Option 1	Option 2	
Exterior	Water + soap + rinse with water	70% Isopropyl alcohol	The user must know the specifics of the sample, handle with care, and consider the material from which the parts are made.	Sodium hypochlorite 1:100 in cold water Hypochlorite solution (1:100) = 10 ml + 990 ml cold water Wait 10 min. Do not rinse	70% Isopropyl alcohol	Only in clean rooms
Rotors	Water + soap + enzymatic + rinse with water			Sodium hypochlorite 1:10 in cold water Hypochlorite solution (1:10) = 100 ml + 900 ml cold water Wait 10 min. Do not rinse		Autoclave: 121°C for 20 min*
Buckets						
Adapters						
Bucket lids						
Centrifugation chamber						

*Not all accessories can be sterilized in an autoclave. For more information, consult the equipment user manual.

Recommendations

We recommend cleaning your equipment after each use or at least once a week to prevent failures and improve safety.

For refrigerated equipment, keep the lid slightly open when not in use to avoid moisture buildup and condensation formation.



Centrifuges made in Spain (EU)



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