



Toolkit for Cleaning Your Controlled Environments

The effective cleaning of your cleanroom and compounding equipment is a critical component of reducing bioburden in your facility's compounding complex and, ultimately, ensuring safely compounded preparations. On this page, you will find helpful tools for planning and performing your cleaning activities and sourcing the products you need to clean your controlled environments.

Lint-Free Wipers



Lint-free wipers can be used to clean a variety of surfaces in ISO Class 5 to 8 areas, including compounding aseptic isolators, automated compounding devices, doors, handles, carts, shelving, and bins. Larger wipers can cover more surface area. Pre-wetted wipers are convenient, but less economical than wipers dipped in diluted cleaning agents.

Cleaning and Sanitizing Agents



Isopropyl alcohol and 3% hydrogen peroxide and 2% sodium hypochlorite bleach are effective cleaning and sanitizing agents. Though an effective disinfectant and sterilant, bleach does not have the detergent action necessary for soil removal. Consider rotating your cleaning agents – using 2% bleach solution six days a week and a hard-surface disinfectant once a week – to prevent the development of resistant microflora.

Mops and Buckets

Stainless steel mop handles hold up very well to the rigors of daily cleaning. Like wipers, mop heads should be lint-free. Buckets should be metal free and made of heavy-duty plastic.



Activities to Be Completed During Daily, Weekly, and Monthly Cleanings

Activity	Daily	Weekly	Monthly
Empty waste receptacles and replace bin liners	(as often as needed)	X	X
Remove hazardous-waste receptacles	X	X	X
Remove biohazardous materials	X	X	X
Clean ISO Class 5 workstations, including automated compounding devices residing in workstations	X	X	X
Clean sinks, countertops, cart tops, stool tops, and exterior of sharps containers	X	X	X
Mop floors	X	X	X
Clean windows, walls, and all other horizontal surfaces, including doors and sides, front, and back of hoods, from top to bottom		X	X
Empty, clean, and sanitize storage shelving and bins		X	X
Clean and sanitize any other non-compounding furniture (carts, stools, waste containers)		X	X
Clean and sanitize interior and exterior of refrigerators and incubators (not kept in controlled environment)			X
Clean ceilings of all controlled environments			X



WHERE TO FIND: Controlled Environment Cleaning Products

www.findit.pppmag.com

Vendor	Reader Service #	Vendor	Reader Service #
Acute Care Pharmaceuticals	100	ITW Texwipe	109
Alconox, Inc.	101	Kendall-LTP	110
Anticon by Milliken	102	Kimberly-Clark Professional	111
Attentus Medical Sales, Inc.	103	Micronova Manufacturing Inc.	112
Berkshire Corporation	104	Spectrum Pharmacy Products	113
Caltech Industries, Inc.	105	STERIS Corporation	114
Contec, Inc.	106	Technowipe Lint-Free Wipers	115
High-Tech Conversions, Inc.	107	Williams Medical Company	116
Innotech Products	108	Value-Tek Inc.	117

* Remember that cleaning should occur from the cleanest area to the dirtiest, i.e. from ISO Class 5 areas to ISO Class 8 areas, and generally from top to bottom (ceilings; then walls, windows, and horizontal surfaces; workstation and furniture legs; and finally the floor) in order to avoid cross-contamination. Cleaning should be performed at the end of the compounding day.

Best Practices for Wiping Technique

1. Fold a lint-free wiper into quarters.
2. Wipe in linear, overlapping strokes from the cleanest area to the dirtiest to prevent cross contamination. Circular wiping motions may simply redistribute contaminants.
3. Refold the wiper to expose a fresh surface after each stroke to prevent depositing contaminants picked up from previous strokes.

