



- Active ingredient sodium hypochlorite 0.5%
- Available in Canada only **DIN: 02360500**
- Hospital grade disinfectants with a 5 minute contact time to disinfect C.difficile spores.
- PCS 5000 solution containing a blend of natural ingredients
- Purified water ,Sodium chloride, Carbonates, sodium hypochlorite and sodium hydroxide as PH adjuster.
- Contains no detergent surfactants, masking fragrances, silicates or other synthetic chemicals.
- Buffered stable formulations with a three year shelf life.
- Sodium hypochlorite normally deteriorates rapidly with shelf life from date of manufacture of 11 months for some sodium hypochlorite products.
- Using PCS 5987-6 ,6060-6 or 5990 wiper kits insures wipes have the sodium hypochlorite concentration on the label when put into service.
- PCS 5000 Oxidizing Disinfectant/Disinfectant Cleaner equal to 1 and 10 bleach solution recommended by public health officials more than any other disinfectant when outbreaks occur or new pathogens emerge.

Quantitative Carrier Test # 3 (QCT-3): [Click here for full report](#)

The objective of this study was to: a. Conduct laboratory-based testing on the use of a disinfectant cleaner wipe using PCS 5000 (Sodium Hypochlorite 0.5% w/w) for the microbial decontamination of hard, non-porous environmental surfaces representing those found in healthcare settings. The aim here was to evaluate the efficacy of a cleaning/sanitizing process using a wipe with PCS 5000 cleaner.

SUMMARY OF RESULTS

Test Substance: PCS 5000 Oxidizing Disinfectant Wipe
 Test Carriers 1 cm diameter disks of brushed stainless steel.

Dilution: PCS 5000 was tested as Ready-to-Use (RTU), No dilution was required.

Test Organism: Mixture of Clostridium difficile spores (ATCC 43598), Staphylococcus aureus (ATCC 6538) and Serratia marcescens (ATCC 13880)

Exposure Time: No exposure time was considered. The disks of each platform were transferred to neutralization solution immediately at the end of wiping.

Exposure Temperature: Ambient temperature (22±2°C)

Soil Load: In accordance with the ASTM standard E2197, a mixture of bovine mucin, bovine serum albumin, and yeast extract was used to give a total protein concentration equal to that in 5% bovine serum in test microbial suspension.

Neutralizer: PBST +0.3% Sodium thiosulfate

TEST SYSTEM

“Wipe” method, Starting with the contaminated platform, both platforms were wiped in one step in a pre-determined manner (as instructed by manufacturer). The wiping was performed with one piece of Ready-to-Use Cleaner wipe, started from the contaminated platform back and forth twice to the end of transfer platform.

Constant pressure of 2-3 lbs was applied during wiping process.

A separate platform (transfer platform) was used to determine if, and how much, microbial contamination could be transferred to uncontaminated surfaces in the immediate vicinity.

Vegetative Bacteria (<i>S. aureus</i> and <i>S. marcescens</i>)							
Average CFU per square centimetre							
Product	CFU/cm2			Percent		Average Percent	
	Control	After Wiping	Transfer	Reduction	Transfer	Reduction	Transfer
5000 Wipe Test 1	25,000	0	0	100	0	100	0
5000 Wipe Test 2	25,100	0	0	100	0		

<i>C. difficile</i> spores							
Average CFU per square centimetre							
Product	CFU/cm2			Percent		Average Percent	
	Control	After Wiping	Transfer	Reduction	Transfer	Reduction	Transfer
5000 Wipe Test 1	3050	0	0	100	0	100	0.01895
5000 Wipe Test 2	1350	0	0.51	100	0.0379		

The total of three types of micro organisms							
Average CFU per square centimetre							
Product	CFU/cm2			Percent		Average Percent	
	Control	After Wiping	Transfer	Reduction	Transfer	Reduction	Transfer
5000 Wipe Test 1	29,000	0	0	100	0	100	0.00097
5000 Wipe Test 2	26,500	0	0.51	100	0.00193		

Conclusion using PCS process of supplying the PCS 5000 in kits keeping liquid and wipes separate until activated on site provided a potent moistened wiper that completely removed all of the vegetative bacteria and C.difficile spores with a one wipe process without allowing for a contact time.

“ Disinfectant residues should be removed.”