

DISINFECTANTS FOR USE IN CARON EQUIPMENT

While a wide range of liquid-format chemicals are available for surface cleaning and disinfection, not all are appropriate for laboratory equipment.

CATEGORY	TRADE NAMES	EFFICACY	MATERIALS COMPATIBILITY
Alcohol (Ethyl & Isopropyl)	N/A	Vegetative bacteria, fungi, & lipid-based viruses.	Very good
60-90% concentration. Often paired with other disinfectants and used as post-disinfection rinse. Ineffective against spores or hydrophilic viruses.			
Quats (Quaternary Ammonium)	Lysol No-Rinse, Vesta-Syde	Vegetative bacteria, fungi, lipid-based viruses	Very good
0.4-1.6% concentration. Can be left on surfaces, short required dwell time, usually combined with alcohol. Ineffective against spores or hydrophilic viruses			
Phenolics	Vesphene II, LpH	Most vegetative bacteria, fungi, most viruses	Very good
0.4-1.6% concentration. Ineffective against non-enveloped viruses & spores			
Hydrogen Peroxide (H₂O₂)	HyProx	Highly effective against vegetative bacteria, fungi, viruses, & spores	Good
0.5-7% concentration. Effective against spores in high concentrations. Limited materials compatibility issues (select plastics).			
Iodophors (Iodine)	Clean Front	Vegetative bacteria, most fungi, viruses	Poor
Under 0.5% concentration. Not effective against certain fungi in lower concentrations, not effective against spores without prolonged contact times. Discolors many materials.			
Acetic & Paracetic acid	Spor-Klenz, Nu-Cidex	Highly effective against vegetative bacteria, fungi, viruses, & spores	Poor
10-15% concentration. Often combined with hydrogen peroxide. Attacks steel, aluminum, & most stainless without immediate & extensive post-dwell sterile H₂O or alcohol rinse.			
Bleach (Sodium Hypochlorite)	ProKlenz-One	Highly effective against vegetative bacteria, fungi, viruses, & spores	Very poor
5.25 – 6.15% concentration. Sporicidal in high concentrations. Very low dwell times. Aggressively attacks steel, stainless steel, aluminum & copper in even trace concentrations.			

Preferred cleaner categories shown in green. Carefully inspect SDS sheets to determine all ingredients in solution and assess potential effects. Solvents, abrasives, aggressive acids & bases also not recommended. Unit damage from improper chemical use or chemical application process will void unit warranty. **A vaporized H₂O₂ sterilization system is also available from Caron as an effective alternative to manual liquid chemical disinfection.**

Contact Caron Technical Service if you have any questions.

REVISION A