Monarch Enzymatic Cleaner
TECHNICAL DATA SHEET

ENZYME ACTIVITY

The Monarch multi-enzyme cleaner/detergent employs unsurpassed technology with 5 active enzymes: protease, subtilisin, lipase, cellulase, and amylase combined with the latest in advanced surfactant synergy. This presoak and ultrasonic cleaner/detergent combines anionic and nonionic surfactants with sodium xylene sulfonate, propylene glycol, special chelating agents, four stabilizers, buffers and corrosion inhibitors.

Monarch Enzymatic Cleaner is excellent at removing blood, tissue, fats, carbs, sugars, and other difficult debris from surgical instruments. This product will lift organic matter and bioloads, prevent any drying, and assists in total disinfection/ sterilization.

Protease: accelerates the breakdown of proteins, such as blood
Subtilisins: are proteolytic enzymes assisting and enhancing the activity of the protease.
Lipase: accelerates the breakdown of tri-glycerides (lipids or fats)
Cellulase: removes stains and aids in overall cleanness
Amylase: accelerates the breakdown and ensures complete removal of starch, carbohydrates and sugars

SURFACTANT SYNERGY

Monarch Enzymatic Cleaner contains a blend of anionic and nonionic surfactants, therefore providing the best combination of chemical benefits available. Anionic surfactants provide superior wetting agents and excellent ability to break surface tension that will provide for even soil suspension, which is critical in getting your facility's instruments clean and free of fragments that can redeposit on a medical device, especially in presoaking, manual and ultrasonic cleaning. Our Multi-Enzyme Detergent combines this with nonionic surfactants, which are excellent in solubilizing and removing lipid/fat soils.

Surfactant synergy is beneficial to your practice's instrument cleaning program because, if an enzyme product contains only nonionic surfactants, you could get a "cloud-out" situation at warm water temperatures. This causes a reverse-out situation, which will not allow the enzyme product to be completely soluble in water and will create poor wetting agent activity. The instruments would then be vulnerable to redeposits of protein fragments on them. Further, an enzyme product that contains only anionic surfactants will not attack lipid/fat soils as well as products that contain both anionic and nonionic surfactants.

OTHER CRITICAL INGREDIENTS

Sodium xylene sulfonate assists the Monarch Enzymatic Cleaner in excellent solubilizing capabilities, which enhances cleaning efficiency.

Chelating agents assist the Monarch Enzymatic Cleaner in its ability to perform even in the presence of hard water.

Propylene glycol is an enzyme stabilizer that also acts as a preservative.

Instructions for Use:

84.5 oz. bottle: Mix 2/3 oz. (fill cap to line) with 1 gallon of water.

For ultrasonic cleaners, set timer as per manufacturer's IFUs.
The solution is active and safe within the temperature range of 32-150 degrees F (0-65.6 degrees C).

After cleaning instruments with Monarch Enzymatic Cleaner, rinse with water and then disinfect/sterilize according to appropriate infection control protocols.

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