

ENZYMES

AMZYME® 3

CONCENTRATED NEUTRAL ENZYMATIC DETERGENT CLEANER FOR FLEXIBLE ENDOSCOPES AND MEDICAL INSTRUMENTS

Amzyme® 3 is for use in washer/disinfectors, AER (Automated Endoscope Reprocessor) and other automated decontamination systems. Amzyme® 3 is a biological detergent using a blend of three enzymes with synergistic surfactants that is designed for the automated decontamination of medical, surgical, dental and endoscopic instruments; removes high levels of proteins, fats and other organic material from instruments and equipment. Its triple enzyme formulation dissolves and removes all types of protein and organic material, even dried on blood and tissue. It is a neutral, concentrated enzymatic detergent with a wide material compatibility which gently removes blood, proteins, mucus and tissue residues.

This chemistry has been specially developed for the gentle cleaning of delicate surgical instruments, utensils, anaesthesia and endoscope material, allowing simultaneous reprocessing of instruments made of different materials. It has optimal cleaning performance at temperatures of 50-60°C but for endoscopes temperature should not exceed 55°C and can be used for the following: stainless steel instruments (scalpels, tweezers etc.), articulated instruments (scissors, clamps etc.), ward utensils (bowls, feeding bottles etc.), anaesthesia utensils (breathing balloons, tubes etc.), shoes of the surgical team, transport containers made of stainless steel as well as aluminium and endoscopes.

Primary features attributable to Amzyme® 3 are:

- Neutral low-foam enzymatic detergent cleaner
- Suitable for removal of contaminants from sensitive instrument materials
- Uses a blend of proteolytic, amylase and lipase enzymes, complexing and sequestering agents, detergents and corrosion inhibitors that are effective in hard and soft water
- Excellent material compatibility
- Non-fixative
- Prevents re-deposition of contaminants and water mark staining
- Non-corrosive, will not damage delicate coatings
- Cost effective
- Can be used with tap water (saves DI/RO water cost)
- Can be used without neutralizer
- Good cleaning power even at low dosage



Packaging

- 5 L container
- 10 L container
- 25 L container
- 200 L drum
- 1,000 L IBC

Amzyme® 3 is for use in all types of cleaning.

Application

Amzyme® 3 is supplied as a concentrated product and should be diluted prior to use.

For Manual & Ultrasonic Cleaning of instruments and equipment:

For cleaning applications, dilute 1 part Amzyme® 3 in 100 - 200 parts water (i.e. a 0.5 - 1% solution; 10ml/L).

Soak parts for between 5 and 15 minutes in the diluted Amzyme® 3 solution at between 50°C to 60°C (allow longer times up to 15 minutes when dealing with dried on proteinaceous deposits).

Note: soak times may vary according to the temperature used and the nature of the contaminants.

After soaking, rinse off thoroughly with clean water (temperature > 40°C) or transfer to the next cleaning stage e.g. manual cleaning, washer/disinfector or ultrasonic equipment.

For Automated Cleaning of instruments and equipment:

Injectors should be adjusted to deliver at 5 - 10ml per litre of water dependant on the expected soil loading of the contaminated equipment and the temperature of the water.

AER

| Phase | Water Type | Time | Temp | Solution | Dosage |
|-------------------------|----------------|--------|---------|---|---|
| Pre-Wash | Cold Tap Water | 3 min | | | |
| Wash Step | Hot Tap Water | 10 min | 25-55°C | Amzyme 3 | 5-10ml/L or 0.5 - 1% |
| Rinse | Hot Water | 2 min | | | |
| High Level Disinfection | DI or RO Water | 10 min | 25°C | Amity PAA RTU | As Supplied |
| | | | 25°C | Amity OPA Amity PAA 15 Amity PAA 10 Amity PAA 5 System | As Supplied 10ml/L (1%) 15ml/L (1.5%) 20ml/L (2%) parts A & B |
| Rinse | DI or RO Water | 2 min | | | |
| Rinse | DI or RO Water | 2 min | | | |
| Rinse | DI or RO Water | 2 min | | | |

WASHER / DISINFECTOR

| Phase | Water Type | Time | Temp | Solution | Dosage |
|----------------------|----------------|--------|-----------|-------------|-------------------------------|
| Pre-Wash | Cold Tap Water | 3 min | | | |
| Wash Step | Hot Tap Water | 10 min | 55°C | Amzyme 3 | 5-10ml/L or 0.5 - 1% |
| Rinse | Hot Water | 1 min | | | |
| Rinse | DI or RO Water | 1 min | | | |
| Thermal Disinfection | DI or RO Water | 1 min | 93°C | Virudet NDA | 0.1 - 0.5ml/L or 0.01 - 0.05% |
| Drying | | 15 min | 110-115°C | | |

Amzyme® 3 Properties

- Amzyme® 3 is biodegradable.
- The product is classed as non-hazardous in diluted forms, however contact with skin and eyes should be avoided.
- See Material Safety Data Sheets for details.

| | |
|----------------------------------|---------------------------|
| Appearance | Pale brown liquid |
| Odour | Odourless |
| pH | 9.8 units (neat solution) |
| Density g/cm ³ @ 20°C | 1.03 (neat) |
| Solubility in water | Completely miscible |
| Flashpoint (Abel closed cup) | None |



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