

## ENZYMATICS

# VIRUZYME® V

## PROTOLYTIC FIVE-ENZYME BIOLOGICAL CLEANER

Viruzyme® V is a biological cleaner using five enzymes that is designed for decontamination of medical, surgical, dental and endoscopic instruments.

Viruzyme® V is particularly effective for removing high levels of proteins, fats and organic contaminants from surfaces, including dried on blood and tissue.

Viruzyme® V is registered as a Class I medical device

Viruzyme® V is safe to use on any surface.

Viruzyme® V has an effective cleaning action at ambient and elevated temperatures for pre-cleaning and the wash phase in manual cleaning, washer/disinfector or Automated Endoscope Reprocessing equipment.

Viruzyme® V is compatible for use in manual, ultrasonic, washer/disinfector and AER equipment.



### Primary features attributable to Viruzyme® V are:

- Biological cleaner suitable for removal of proteinaceous and organic contaminants from sensitive instrument materials.
- Uses a blend of protease, amylase, lipase, cellulase & mannanase enzymes.
- Pleasant odour.
- Excellent material compatibility.
- Non-fixative.
- Non-corrosive, will not damage delicate coatings.
- Rapid cleaning time – 5 minute immersion at 20 to 55°C.
- Cost effective.

### Packaging

- 5 L container
- Available on request:
- 1 L container
- 10 L container
- 25 L container
- 210 L drum
- 1,000 L IBC

Viruzyme® V is a new biological cleaner for automated and manual processes using protolytic enzymes that is designed for decontamination of medical, surgical, dental and endoscopic instruments.

## Application

### For Manual/Ultrasonic Cleaning of instruments and equipment:

For cleaning applications dose 2 - 5ml Viruzyme® V to 1 litre of water (i.e. 0.2 - 0.5%).

Note greater strengths of up to 40ml per litre (4%) may be used where high levels of contaminants or where difficult or hazardous contaminants may be present.

Soak parts for between 5 – 10 minutes in the diluted Viruzyme V solution (allow longer times up to 20 minutes when dealing with dried on proteinaceous deposits or if low solution temperatures are employed).

After soaking brush to remove gross debris in manual cleaning, rinse off thoroughly with clean water or transfer to the next cleaning stage e.g. washer/disinfectors, ultrasonic equipment or AER.

Automated Cleaning Cycle	Phase	Water Type	Time	Temp	Solution	Dosage
	Pre-Wash	Cold Tap Water	3 min			
	Wash Step	Hot Tap Water	5-10 min	≤55°C	Viruzyme V	2 - 5ml/L or 0.2 - 0.5%
	Rinse	Hot Water	2 min			
	Rinse	DI or RO Water	2 min			
	Thermo - Disinfection	DI Water	3 min	93°C	Virudet NDA	0.5ml or 0.05%
	Drying		15 min	110-115°C		

Manual / Ultrasonic Cleaning	Manual Soak	Warm Tap Water	5-20 min	ambient	Viruzyme V	2-5ml/L or 0.2 - 0.5%
	Ultrasonic	Warm Tap Water	3 min	20-50°C	Viruzyme V	2 - 5ml/L or 0.2 - 0.5%
	Rinse	Rinse thoroughly with clean water and transfer to next cleaning stage				

AER	Pre-Wash	Cold Tap Water	3 min			
	Wash Step	Hot Tap Water	5-10 min	≤55°C	Viruzyme V	2 - 5ml/L or 0.2 - 0.5%
	Rinse	Water	2 min			
	HLD	DI or RO Water	5-10 min	20°C 35°C 35°C 35°C 35°C 25°C	Viruolve+ EDS Auto Amity PAA 15 Amity PAA 10 Amity PAA 5 System Amity PAA RTU Amity OPA	25ml/L 10ml/L 15ml/L 20ml/L part A&B No Dilution No Dilution
	Rinse	DI / RO Water	2 min			
	Rinse	DI / RO Water	2 min			

## Viruzyme® V Properties

Viruzyme® V is biodegradable.

Viruzyme® V is certified as being non-hazardous when diluted and used according to the specified user directions.

The organisms used in the formulation are naturally occurring and are known to be non-pathogenic to humans and animals.

See Material Safety Data Sheets for details.

Appearance	Pale blue liquid
Odour	Pleasant odour
pH	10.5 units (neat)
Density g/cm <sup>3</sup> @ 20°C	1.07 (neat)
Solubility in water	Completely miscible
Flashpoint (Abel closed cup)	None



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