

Viruzyme[®] VN

A Proteolytic Multi Enzyme Biological Cleaner for Medical Equipment and Endoscope Cleaning Applications Technical Information

Description & Application:

Proteolytic multi enzyme based Biological Cleaner for Medical Equipment and Endoscope cleaning applications.

It is a neutral enzymatic detergent formulated to wash instruments that may be damaged by highly alkaline chemistries. It provides superior cleaning action without foaming or causing corrosion on instruments or washer/disinfectors and has a wide material compatibility. It is compatible with stainless steel, aluminium, anodised aluminium, chromium-plated material, synthetic materials, rubber, latex, glass, and ceramics.

Viruzyme VN is particularly effective for the removal of protein and organic contaminants from sensitive surfaces, including dried on blood and tissue.

Viruzyme VN is a Class I Medical Device.

It is suitable to use on any surface and has an effective cleaning action during manual, ultrasonic, automated washer/disinfector, and AER equipment.

The product is used in the wash phase after the pre-rinse stage of automated washer-disinfector equipment and does not interfere with the cleaning mechanism in ultrasonic and washer-disinfector equipment.

Primary features attributable to Viruzyme VN are:

- Biological cleaner suitable for removal of proteinaceous and organic contaminants from sensitive instrument materials.
- Low foaming.
- Suitable for manual, ultrasonic, washer-disinfector & AER equipment.
- Highly effective cleaner action.
- Uses a blend of enzymes, and synergistic surfactants.
- Pleasant odour.
- Reduced instrument damage and repair.
- Excellent material compatibility.
- Non-fixative.
- Non-corrosive will not damage delicate coatings.



**Infection
Controlled**

Applications

Viruzyme VN is ideal for removing bioburden from medical instruments, endoscopes and other equipment including those with delicate or sensitive surfaces that are used in hospitals, health centres, dentists, and laboratories.

Compatibility

Viruzyme VN is compatible with a wide range of fabrics, rubbers, plastics, and hard surface materials and will not attack metal surfaces when used in accordance with standard instructions for use.

Health and Safety

Viruzyme VN is biodegradable.

Viruzyme VN 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 Safety Data Sheets for details.

Typical Properties

Appearance	Pale Straw liquid
Odour	Slight odour
pH,	8 units (Neat solution)
Density, g/cm ³ @ 20°C	1.1 (neat)
Solubility in water	Complete

Shelf Life: Concentrate – 2 years in unopened original containers when stored between 5°C and 25°C out of direct sunlight.

Directions for Use

Viruzyme VN is supplied as a concentrated product that requires dilution prior to use.

Application:

For Manual Cleaning of Instruments and Equipment:

Use Viruzyme VN product at a dilution of 2 to 10 ml/L in water (i.e., 0.2 to 1.0% v/v).

Greater strengths up to 40ml/L (4% v/v) may be used where high levels of contaminants or where difficult or hazardous contaminants may be present.

Soak for between 5 and 10 minutes at 20°C to 30°C in the diluted Viruzyme VN solution. (Note: allow longer periods – up to 20 minutes when dealing with dried on proteinaceous deposits or if low solution temperatures are present).

Finally, rinse with clean water and transfer to next cleaning stage.

For Ultrasonic Cleaning of Instruments and Equipment:

Use Viruzyme VN product at a dilution of 2 to 10 ml/L in water (i.e., 0.2 to 1.0% v/v)

Greater strengths up to 40ml/L (4% v/v) may be used where high levels of contaminants or where difficult or hazardous contaminants may be present.

Soak parts for between 5 and 10 minutes at 20°C to 50°C in the diluted Viruzyme VN solution. (Note: allow longer periods – up to 20 minutes when dealing with dried on proteinaceous deposits or if low solution temperatures are present).

Finally, brush surfaces to remove any gross debris then rinse thoroughly with clean water and transfer to next cleaning stage (e.g., washer/disinfector, ultrasonic or AER equipment).

For Automated Cleaning of Instruments and Equipment:

Injectors should be adjusted to deliver between 2 and 10 ml per litre of water (i.e., between 0.2 and 1.0% solution) dependant on the expected soil loading of the contaminated equipment and the temperature of the water.

A recommended automatic cleaning program is as follows:

Phase	Water type	Time	Temp	Detergent	Dosage
Pre-wash	Cold tap water	3 min	-	-	-
Wash	Hot tap water	5 to10 min	≤55°C	Viruzyme VN	2 - 10ml / L (0.2 – 1.0%)
Rinse	Hot water	2 min	-	-	-
Rinse	DI or RO water	2 min	-	-	-

Viruzyme VN is not a disinfectant and parts should proceed to disinfection or sterilisation by appropriate methods immediately following cleaning.

A recommended AER cleaning program is as follows:

Phase	Water type	Time	Temp	Detergent	Dosage
Pre-wash	Cold tap water	3 mins	-	-	-
Wash	Hot tap water	5 to10 mins	≤55°C	Viruzyme VN	2 - 10ml / L (0.2 – 1.0%)
Rinse	Water	2 mins	-	-	-
Disinfection (HLD)	DI or RO water	5 to 10 mins	25°C 30°C 25°C 25°C	Amity PAA 15 Amity PAA 5 System Amity PAA 10 Amity PAA RTU Amity OPA	10ml/L 20ml/L part A/B 15ml/L Neat (no dilution) Neat (no dilution)
Rinse	DI or RO water	2 mins	-	-	-
Rinse	DI or RO water	2 mins	-	-	-

General:

Initial rinse temperature should be below 35°C otherwise the temperature may fix protein contaminants rendering them more difficult to remove.

Enzyme activity increases with increased water temperature up to a maximum temperature of 55°C.

A policy by the practice to carefully monitor the above will help to reduce any potential problems.

Do not add other cleaning agents to the Viruzyme VN solution as they can seriously impair performance of the Viruzyme VN cleaner.

Disposal of spent solutions:

Flush to drain with copious water or soak up onto inert material and dispose of with clinical waste.
Product is biodegradable under OECD conditions.

Packaging Details:

Viruszyme VN is available in the following packaging.

- 1L container
- 5L container
- 10L container
- 20L container (available on request)
- 210L drum (available on request)
- 1000L IBC (available on request)

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