



Viruzyme[®] N

A Neutral Enzymatic Biological Cleaner for Flexible Endoscopes

Technical Information

Description & Application:

Viruzyme N is a neutral enzymatic detergent for use in manual applications, washer/disinfectors, endoscope reprocessors & decontamination systems.

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

Viruzyme N is registered as a Class I medical Device

It is safe to use on any surface and has an effective cleaning action during the manual and automated reprocessing of endoscopes in endoscope washer/disinfector equipment when used in combination with a disinfection agent such as Virusolve+ EDS.

It is normally 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 equipments.

Primary features attributable to Viruzyme N are:

- Biological cleaner suitable for removal of proteinaceous and organic contaminants from sensitive instrument materials;
- Low foaming;
- Uses a blend of proteolytic enzymes and synergistic surfactants that have added safety:
 - Low toxicity;
 - Pleasant odour;
- Reduced instrument damage and repair:
 - Excellent material compatibility;
 - Non-fixative;
 - Non-corrosive, will not damage delicate coatings.



Certificate No. GB06/69741



Certificate No. GB06/69740



**Infection
Controlled**

- Highly effective cleaner:
 - Improved instrument availability through faster turn around times for decontamination;
 - cost effective – improved staff productivity, more flexible, more devices processed per litre;

Applications

Viruszyme N is ideal for removing bioburden from medical instruments, endoscopes and other equipment used in hospitals, health centres, dentists and laboratories.

Compatibility

Viruszyme N 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

Viruszyme N is biodegradable.

Viruszyme N is certified as being non-hazardous when diluted and used according to the specified user directions.

Viruszyme N is intended for machine use only.

The neat product is classed as being Irritant and contact with skin and eyes should be avoided.

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	Blue liquid
Odour	Pleasant odour
pH,	9.0 units (Neat solution) 9.7 units (10% solution) 9.9 units (1% solution)
Density, g/cm ³ @ 20°C	1.09 (neat)
Solubility in water	Complete
Flash Point (Abel closed cup)	None

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

Application:

For Manual/Ultrasonic Cleaning of Instruments and Equipment:

For cleaning applications, dilute 1 part Viruzyme N concentrate in 100 parts clean towns water (i.e. a 1.0% solution or 10ml/Litre)

Note Greater strengths of up to 2% Viruzyme N (i.e. 1 part in 50 parts water or 20ml/Litre) may be used where high levels of contaminants or where difficult or hazardous contaminants may be present.

Soak parts for 10 minutes in the diluted Viruzyme N solution (allow 3 minutes if using ultrasonic agitation) using a solution temperature of between 20°C and 40°C.

Ensure that all spaces and recesses are completely filled with cleaning fluid and no air pockets exist. Tenacious deposits may require longer reaction soak times and/or application of surface mechanical agitation by means of sponge or brush.

After soaking, rinse off thoroughly with clean water or transfer to the next cleaning stage e.g. manual cleaning, washer/disinfector or ultrasonic equipment.

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

For Automated Cleaning of Instruments and Equipment:

Injectors should be adjusted to deliver between 5 and 10 ml per litre of water (i.e. between 0.5 and 1% solution) dependant on the expected soil loading of the contaminated equipment and the temperature of the water.

A recommended cleaning program is as follows:

Phase	Water type	Time	Temp	Detergent	Dosage
Pre-wash	Cold tap water	3 min	-	-	-
Wash	DI water	10 min	55°C	Viruzyme N	5 - 10ml / L (0.5 – 1%)
Rinse	Hot tap water	1 min	-	-	-
Rinse	Hot tap water	1 min	-	-	-
Thermo-disinfection	DI water	3 min	93°C	Virudet NDA	0.5ml/L or 0.05%
drying		15 min	110 - 115°C		

AER equipment					
Phase	Water type	Time	Temp	Detergent	Dosage
Pre-wash	Cold tap water	3 min	-	-	-

Wash	Hot tap water	10 min	35°-55°C	Viruszyme N	5 to 10ml / L (0.5 – 1%)
Rinse	Hot water	2 min	-	-	-
High level disinfection	DI water	10 min	25°C	Virusolve+ EDS Auto Amity PAA 15 Amity PAA 5 System Amity PAA RTU Amity OPA	25ml/L (2.5%) 10ml/L (1.0%) 20ml/L (2.0%) As supplied As supplied
Rinse	DI water	2 min	-	-	-
Rinse	DI water	2 min	-	-	-
Rinse	DI water	2 min	-	-	-

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

General:

Initial rinse temperature should be below 35°C otherwise the temperature may bake on 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 carefully to monitor the above will help to reduce any potential problems.

Do not add other cleaning agents to the Viruszyme N solution as they can seriously impair performance of the Viruszyme N 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.



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For any further information, please contact your distributor or Amity.

In the event of any technical queries, please contact:
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Packaging Details:

Viruzyme N is available in the following packaging.

- 1 L container (available on request)
- 2 L container (available on request)
- 5 L container
- 10 L container
- 25 L container (available on request)
- 210 L drum (available on request)
- 1,000 L IBC (available on request)