



## Viruzyme<sup>®</sup> III

# A Protolytic Triple-Enzyme Biological Cleaner for Manual Cleaning of Endoscopes & Medical and Dental Equipment Technical Information

### Description & Application:

Viruzyme III is a biological cleaner using a blend of protolytic enzymes with synergistic surfactants that is designed for the manual and ultrasonic decontamination of medical, surgical, dental and endoscopic instruments.

Viruzyme III formulation is a highly effective and safe process for the manual and ultrasonic cleaning of endoscopes, medical, dental and delicate instruments against a wide range of contaminants.

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

Viruzyme III is registered as a Class I medical Device

Viruzyme III is a neutral formulation that is safe to use on any surface and offers particular benefits where autoclave and automated decontamination cannot be used, e.g. optic probes.

Primary features attributable to Viruzyme III are:

- Highly effective biological cleaner for removal of proteinaceous and organic contaminants from sensitive instrument materials ;
- Uses a blend of protolytic enzymes that have added safety:
  - Low toxicity;
  - Odourless;
- Reduced instrument damage and repair:
  - Excellent material compatibility;
  - Non-fixative;
  - Non-corrosive, will not damage delicate coatings.
- Compatible with hard water.
- Free rinsing and low foaming



Certificate No. GB06/69741



Certificate No. GB06/69740



**Infection  
Controlled**

## **Applications**

Viruszyme III is ideal for removing biohazards from metallic, glass and plastic medical and dental instruments, rigid and flexible endoscopes and other equipment used in hospitals, health centres, dentists and laboratories by manual and ultrasonic methods.

Viruszyme III is effective against blood, tissue residues, proteins, mucus, faeces and other contaminants.

---

## **Compatibility**

Viruszyme III is compatible with a wide range of fabrics, rubbers, plastics and hard surface materials and will not attack metal surfaces if used in accordance with standard infection control practises at the recommended dilution rate and contact time.

Its use should be avoided in contact with polysulphone, polycarbonate and other sensitive plastics.

---

## **Health and Safety**

Viruszyme III is not flammable and is neither a known or suspected carcinogen and is fully biodegradable.

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

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 Material Safety Data Sheets for details.

---

## **Typical Properties**

Appearance	Clear blue coloured liquid
Odour	Pleasant Odour
pH,	8.5 units (Neat solution)
Density, g/cm <sup>3</sup> @ 20 °C	1.07 (neat)
Solubility in water	Completely miscible
Flash Point (Abel closed cup)	None

**Shelf Life:** Concentrate – 2 years in unopened original containers when stored between 5 °C and 30 °C out of direct sunlight.

---

## **Directions for Use**

Viruzyme III 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 III concentrate in 200 parts clean towns water (i.e. a 0.5% solution or 5ml/Litre)

Note Greater strengths of up to 2% Viruzyme III (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 III 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.

Note: Poor quality rinsing equipment may cause formation of foam problems in the washer/disinfector.

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

#### **General:**

Enzyme activity increases with increased water temperature but temperature above 55 °C should be used with caution as these may bake on protein contaminants rendering them more difficult to remove.

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

For maximum effectiveness, the Viruzyme III solution should be replaced at least daily or when the observed cleaning action falls off.

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

---

## **CONTACT DETAILS:**

### For UK and Rest of the World:

Amity International,  
Libra House, Spring Park  
Clayburn Rd, Park Springs,  
BARNSELY  
S YORKS, S72 7FD,  
ENGLAND

Tel: +44 (0) 1226 770787

Fax: +44 (0) 1226 770757

### For North America:

Amity International,  
PO Box 5254,  
1704 Denver Road,  
ANDERSON,  
SOUTH CAROLINA,  
SC29623, USA.

Tel: 864 622 2233

Fax: 864 622 2234

**E-mail:** [sales@amityinternational.com](mailto:sales@amityinternational.com)

**Web site:** <http://www.virusolve.com>

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

In the event of any technical queries, please contact:  
Mr. Ram Singh at the UK/ROW address or by e-mail to:

[rsingh@amityinternational.com](mailto:rsingh@amityinternational.com)

---

## **Packaging Details:**

Viruszyme III is available in the following packaging.

- 1 L container (available on request)
- 5 L container
- 210 L drum (available on request)