



## Viruzyme<sup>®</sup> PCD

# A High Level Disinfectant and Biological Cleaner for Endoscopes, Medical & Surgical Instruments and Medical Devices

## Technical Information

### Description & Application:

Viruzyme PCD is a new high level disinfectant and biological detergent using a blend of three enzymes, Didecylmethylpoly (oxyethyl)-Ammonium Propionate (DMPAP), Bis (3-aminopropyl) dodecylamine with synergistic surfactants that is designed for the manual and ultrasonic 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.

Viruzyme PCD formulation is a highly effective and safe process for the manual and ultrasonic high level disinfection and cleaning of endoscopes, medical, dental and delicate instruments.

Viruzyme PCD is registered as a Class IIb medical Device.

Viruzyme PCD is safe to use on all instrument surfaces.

Primary features attributable to Viruzyme PCD are:

- Highly effective high level disinfectant and biological cleaner;
- Uses a blend of proteolytic, amylase and lipase enzymes with Didecylmethylpoly (oxyethyl)-Ammonium Propionate (DMPAP), Bis (3-aminopropyl) dodecylamine:
- Pleasant odour;
- Excellent material compatibility;
- Non-fixative;
- Non-corrosive;
- Compatible with hard water;
- Free rinsing.



Certificate No. GB06/69741



Certificate No. GB06/69740

CE  
1639

Certificate No.  
GB19/964425

**Infection  
Controlled**

## **Applications**

Viruszyme PCD is ideal for removing bioburden 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 PCD is effective against bacteria, fungi, mycobacteria and lipophilic viruses (e.g. HIV, Hep B/C etc) and will effectively remove blood, tissue residues, proteins, mucus, faeces & other contaminants.

## **Compatibility**

Viruszyme PCD 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 instructions for use.

## **Health and Safety**

Viruszyme PCD is biodegradable.

Viruszyme PCD 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.

See Safety Data Sheets for details.

## **Typical Properties**

Appearance	Clear orange/red coloured liquid
Odour	Pleasant Odour
pH,	8.5 units (Neat solution) 7.8 units (0.5% solution)
Density, g/cm <sup>3</sup> @ 20°C	1.04 (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 25°C out of direct sunlight.

## **Test compliance**

Viruszyme PCD has been evaluated against the following test procedures and meets requirements.

- EN 13727 Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics
- EN 14561 Quantitative carrier test for the evaluation of bactericidal activity for instruments used in the medical area
- EN 13624 Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants for instruments used in the medical area
- EN 14562 Quantitative carrier test for the evaluation of fungicidal or yeasticidal activity for instruments used in the medical area
- EN 14348 Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants
- EN 14563 Quantitative carrier test for the evaluation of mycobactericidal or tuberculocidal activity of chemical disinfectants used for instruments in the medical area
- EN 14476 Virucidal quantitative suspension test for chemical disinfectants and antiseptics used in human medicine.

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## **Directions for Use**

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

### **Application:**

#### **For Manual/Ultrasonic Cleaning and high level disinfection of instruments and equipment:**

For cleaning and high level disinfection applications, dilute 1 part Viruzyme PCD concentrate in 200 parts clean towns water (i.e. a 0.5% solution or 5ml/Litre).

Soak parts for 5 minutes in the diluted Viruzyme PCD solution using a solution temperature of between 20°C and 40°C.

Ensure that all spaces and recesses are completely filled with Viruzyme PCD solution 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.

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

#### **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 to carefully monitor the above will help to reduce any potential problems.

For maximum effectiveness in Ultrasonic and manual soaking applications, the Viruzyme PCD solution should be replaced at least every seven (7) days or when the pH drops out of specified area.

Do not add other cleaning agents to the Viruzyme PCD solution as they can seriously impair performance of the Viruzyme PCD cleaner and high level disinfectant.

### **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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## **CONTACT DETAILS:**

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## **Packaging Details:**

Viruzyme PCD is available in the following packaging.

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