

# NOSOZYM®

## Tri-enzymatic cleaner for endoscopes and surgical instruments

NOSOZYM is a very efficient concentrated enzymatic cleaner for surgical instruments and endoscopes.

NOSOZYM contains a combination of enzymes (protease, lipase, amylase) that degrade proteins, fats, and blood residues. This synergy of enzymes removes biofilm from the internal and external surfaces of the biopsy chains of endoscopes.

Its non-foaming and neutral pH formulation is totally adapted to the cleaning of flexible endoscopes.

NOSOZYM can be used in ultrasonic bath, in automated endoscope washer, in instrument washers or in immersion bath.

NOSOZYM is compatible with all major brands of endoscopes and approved by PENTAX MEDICAL®.

### Properties

- A new generation of enzymes for an enhanced cleaning action
- Effectively removes organic residues
- Dissolves the biofilm
- Very economical
- Does not foam
- Prevents corrosion and instrument discoloration
- Compatible with heat-sensitive instruments
- Does not contain aldehydes, phenols, chlorine or EDTA

The cleaning efficiency and biofilm reduction of NOSOZYM has been tested and validated according to ISO 15883-1:2014 and ISO 15883-5:2021.

### Composition

Protease, lipase, amylase, non ionic surfactants <5%, corrosion inhibitor, pH regulator, excipients.

### Compatibility

NOSOZYM is compatible with most materials such as stainless steel, aluminum, glass, ceramics, hard plastics, ebonite, etc.

### Certifications

- CE mark according to the medical devices MDR Regulation (EU) 2017/745
- Medical device class I

NOSOZYM is manufactured in the E.U.

**MEDALKAN** satisfies the requirements of ISO 9001:2015 for quality management system and the requirements of ISO 13485:2016 for the design and manufacture of medical devices.

For further information, please visit [www.medalkan.com](http://www.medalkan.com)

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### Packaging

- 5 litre canister (Ref. 20022)
- Dosing pump for 5 litre canister (Ref. 20023)

### Physical properties

■ Appearance:	Transparent orange solution
■ Density:	1.02 g/cm <sup>3</sup> at 20°C
■ pH:	7.0-8.0 (neutral) at 20°C
■ pH (0,5%):	7.0-8.0 (neutral) at 20°C
■ Odour:	Neutral
■ Storage:	5°C - 35°C
■ Stability:	3 Years
■ Biodegradability:	According to OCDE 301D

### Instructions for use

#### ■ In immersion bath

Dilute NOSOZYM in soft water according to the dosage recommendations. Open all instruments with joints. Immerse them into the solution. Be sure they are fully covered and leave them soak for a few minutes. Rinse your instruments. Dry thoroughly with a single-use paper. Your instruments are ready for sterilization.

Change the solution every 48 hours or when it becomes dirty. Do not mix with other disinfectants.

The packaging must be closed tightly after use. Store between +5°C and +35°C.



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## Endoscope cleaning

Cleaning is the critical step in endoscope reprocessing.

It consists of the mechanical cleaning of internal and external surfaces of the endoscope. This includes brushing them carefully with a detergent solution, and then flushing thoroughly with soft water. The purpose of cleaning is to remove all organic and inorganic materials from the internal and external surfaces of flexible endoscopes.

If the manual cleaning, brushing and rinsing steps are not properly carried out, protein debris can harden and lead to formation of biofilm on the biopsy channel of the endoscope. Inadequate cleaning can thus result in material remaining on the endoscope surfaces which prevents disinfectant reaching all parts of potentially contaminated surfaces.

For this reason, the endoscope should be cleaned with an enzymatic detergent immediately after use and prior to the disinfection step.

NOSOZYM contains a combination of specific enzymes. The enzymes break down the soil into tiny fragments, making it water soluble and thus easier to remove by rinsing.

Use NOSOZYM for endoscope cleaning:

- by manual cleaning
- in automated reprocessor

### ■ In ultrasonic bath

NOSOZYM can be used in all common types of ultrasonic baths. Do not exceed 60°C.

### ■ In automated reprocessor

NOSOZYM can be used in automated reprocessor. Do not exceed 60°C. Follow the manufacturer's instructions.

### ■ Recommended dosage table

CLEANING METHOD	RECOMMENDED DOSAGE (%) *	RECOMMENDED DOSAGE (ml/l)	WATER TEMP. (°C)	CONTACT TIME
IN IMMERSION BATH	0,5% - 1%	5 ml/l - 10 ml/l	20 - 60 °C	1 - 10 min
IN ULTRASONIC BATH	0,2% - 0,5%	2 ml/l - 5 ml/l	45 - 60 °C	1 - 5 min
IN AUTOMATED REPROCESSOR	0,15% - 0,5%	1,5 ml/l - 5 ml/l	45 - 60 °C	1 - 5 min **

\* Always adjust the dosage and contact time depending on the degree of contamination and cleaning method you follow. Recommended dosages can be adjusted or exceeded according to the quality and temperature of the water and the type of washer used.

\*\* Depends on the recommendations of the washer's manufacturer.