

# NOSOZYM®

Tri-enzymatic cleaner  
for endoscopes and surgical instruments

NOSOZYM is a highly concentrated tri-enzymatic cleaning solution for surgical instruments and flexible endoscopes, developed to deliver effective removal of organic contaminants and bioburden.

The formulation contains a synergistic enzyme system comprising protease, lipase, and amylase, which enzymatically degrade proteins, lipids, polysaccharides and blood residues. This enzymatic activity supports effective cleaning of internal and external surfaces, including endoscope biopsy channels, and contributes to biofilm removal.

The non-foaming, neutral pH formulation makes NOSOZYM particularly suitable for flexible endoscopes and sensitive materials.

NOSOZYM can be used in ultrasonic baths, automated endoscope reprocessors, washer disinfectors and immersion baths, offering flexibility across different reprocessing systems.

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

## Properties

- A new generation of enzymes for an enhanced cleaning action
- Effectively removes organic residues
- Proven biofilm reduction (validated according to ISO 15883)
- Very economical (0.15% to 0.5% dilution)
- Non-foaming formulation
- Prevents corrosion and instrument discoloration
- Excellent material compatibility
- Does not contain borax, aldehydes, phenols or EDTA

## 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)

**MEDALKAN**-Michalakopoulou 102, 11528 Athens, Greece - Tel.: (+30)210-7484847 - Fax: (+30)210-7772009 - [www.medalkan.com](http://www.medalkan.com) - [contact@medalkan.gr](mailto:contact@medalkan.gr)



## 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

## 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.



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## Cleaning in Ultrasonic Bath

1. Dilute NOSOZYM in water at a dilution of 0.2% (2 ml/L) to 0,5% (5 ml/L).
2. Place instruments in the ultrasonic bath, ensuring they are fully immersed.
3. Operate the ultrasonic bath according to the manufacturer's instructions.
4. Do not exceed a temperature of 60 °C.
5. After cleaning, rinse thoroughly with water.
6. Dry using a single-use disposable paper or before further reprocessing.

## Cleaning in Washer-Disinfectors or Automated Endoscope Reprocessors (AER)

1. Set up the washer-disinfector or AER for a detergent concentration of 0.15% (1,5 ml/L) to 0,5% (5 ml/L)
2. Select a cleaning program with a cleaning temperature between 45 °C and 60 °C.
3. After completion of the cleaning cycle, proceed with the rinse and sterilisation procedure.

For professional use only.  
Do not mix with other chemicals.  
Keep container tightly closed after use.  
Store between +5°C and +35°C.

## Instructions for use

### Manual Cleaning in Immersion Bath for Instruments and Endoscopes

1. Dilute NOSOZYM in water at a dilution of 0.5% (5 ml/L) to 1% (10 ml/L).
2. Open all hinged or jointed instruments prior to immersion; for flexible endoscopes, remove detachable components and ensure all internal channels are accessible for cleaning.
3. Completely immerse instruments or endoscopes in the solution, ensuring all external surfaces are fully covered.
4. For flexible endoscopes, flush all internal channels thoroughly with the prepared solution, using appropriate adapters.
5. Allow to soak for the recommended contact time, depending on the degree of contamination.
6. If necessary, apply mechanical action (e.g. brushing of accessible surfaces and channels).
7. After cleaning, rinse thoroughly with water to remove all residues.
8. Dry instruments and endoscopes using a single-use material or medical air as appropriate.
9. Proceed with subsequent disinfection and/or sterilisation according to the validated reprocessing procedure.

Change the prepared solution every 48 hours or if it becomes visibly contaminated.