

# Instru Zym (concentrate)

enzymatic detergent

**Complies with the requirements of the Robert Koch Institute for the profound manual pre-cleansing. Safe and economical.**

Medical product of the class I, CE  
Article number 90006 (30x150ml bottle), 90001 (10x1-litre bottle), 90008 (6x2-litre bottle), 90002 (2x5-litre canister)

## Type of preparation:

INSTRU ZYM is an **enzymatic cleaner** for the material caring, residue free cleaning of medical instruments, especially of flexible and rigid endoscopes, endoscope accessories as well as of surgical and orthopaedic instruments. Special, highly active enzymes, supported by an innovative system of surfactants, remove sediments of blood, secretions, detritus, rest of tissues and fat. **Polysaccharide-splitting enzymes prevent bio-films, which harbour dangerous pathogenic germs which are very difficult to eliminate and which are extremely resistant to disinfectants.** With an effective, residue free cleaning in 2 - 3 minutes and its bactericidal and virus inactivating qualities **INSTRU ZYM provides for the optimal precondition for an effective disinfection and sterilization.** INSTRU ZYM prevents coagulations and therefore minimizes instrument failures and ensures the functioning of movable instrument parts. **Important for endoscopes and endoscopes accessories.**

Tested and released for **material compatibility** by three leading endoscope manufacturers of the world: **Karl Storz** (Germany), **Richard Wolf** (Germany), **Pentax** (Japan).

**Certification** by University and Scientific Institutes expert opinions (latest ones):

### Micro-biological and virological expert opinions:

BVDV (HCV), VACCINIA  
Dr. Steinmann, Bremen 2005

HBV/HIV inactivation:  
Dr. Steinmann, Bremen 2000

Bactericidal according to EN 1040  
Dr. J. Höffler, Institute for Technical Microbiology 2002

### Tests for the cleansing properties:

Degradation of bio-film of Pseudomonas aeruginosa:  
Dr. Seipp, HSK Wiesbaden 1999

Elimination of fibrins:  
PEREG GmbH, Waldkraiburg 2001

**Dosage and usage: 0,5 - 3 % according to the degree of soiling (2 - 3 minutes).** If the instruments are cleaned after each use with INSTRU ZYM 1 - 3 % are sufficient. If needed, the concentration can be increased to 5 %. The usage solution can be used several times, but has to be renewed regularly. Under normal conditions the usage solution has to be renewed 1 - 2 times a day. With extreme dirt and low concentrations we recommend renewing the solution after each reprocessing. **With a dosage of 3% (5 minutes) INSTRU ZYM has also got disinfecting properties (but does not replace a disinfectant).**

3% (30ml) concentrate + 97% (970ml) water – effective time 2-3 minutes

3% (150ml) concentrate + 97% (4.850ml) water – effective time 2-3 minutes  
- for this quantity we offer a 150ml bottle; the user simply pours the contents of the bottle into an empty standard tub of 5 litres volume and fills then the tub up with water until the 5 litre mark (with 4.850ml water) avoiding like this problems and complications with the dosage procedure.

## Instruments

manual treatment of instruments



## Spectrum of effect:

BVDV (HCV), Vaccinia, HBV, HIV, prevents biofilms, anti-microbial (effective against all enveloped viruses)

## Main advantages:

+ very material caring even with sensitive materials; + ph value neutral; + Supported by an effective system of surfactants proteases and amylases split and suspend protein, albumen, fat and polysaccharides; + ideal for the reprocessing in the ultra sonic bath, foamless; + effective with all water temperatures, warm water improves the cleansing effect (30 - 45°C); + prevents bio films and minimizes formation of new germs; + a bactericidal and virus inactivating component protects while handling with the dirty usage solution, but does not replace disinfectants; + economical through low usage concentrations.

## Ingredients:

Proteases, amylases, glycols, non-ionic surfactants, preservatives, perfumes, cleaned water, corrosion inhibitors.

## Available Sizes: €€

1-litre bottle,  
2-litre bottle,  
5-litre canister,  
150ml portion - bottle  
(other filling units on demand)

## Shelf life:

3 years

## Reuse life:

can be used several times, but should be renewed 1 - 2 times a day

## Instruments

manual treatment of instruments

## Chemical and physical data:

|                    |                                     |
|--------------------|-------------------------------------|
| Appearance:        | slightly opaque,<br>slightly yellow |
| PH-value 18°-28°C: | ca. 5,8 - 7,0                       |
| Density 20°:       | 1,0250-1,0330                       |

### Manual reprocessing, ultra sonic bath and circulation method:

Immerse instruments after use. All surfaces and hollows must be covered and filled. Clean the instruments thoroughly and pay attention to the instructions of the instrument manufacturers. With encrusting: let INSTRU ZYM work preferably with warm water. The product is stable until maximal 50°C. In the ultra sonic bath: stick to the given frequencies and working time. Avoid temperatures above 45 °C. Afterwards take out the instruments and disinfect them. For disinfection we recommend ENDO STAR, INSTRU PLUS or INSTRU STAR.

INSTRU ZYM has also shown excellent results when used for the **cleaning of bed linen and laundry**. Add 3-5% to the pre-washing step at not more than 40°C and you will get snow white and partially disinfected cloths.

### Application hints:

The directions for use and the reprocessing guidelines of the manufacturers of the instruments, the endoscopes, the endoscope accessories and of the reprocessing equipments have to be absolutely followed; especially the instructions concerning the preparing measures for the cleansing procedure.

For the disinfection we recommend INSTRU PLUS, ENDO STAR INSTRU PLUS FORTE or INSTRU STAR.

**Compatibility / Water quality:** INSTRU ZYM is compatible with the aldehyde free disinfectants ENDO STAR and INSTRU STAR. Intermixture with aldehyde containing disinfectants does generally not make sense because it would destroy the enzymes. INSTRU ZYM is preferably to be stored cool. Storage temperatures above room temperature and direct solar radiation are to be avoided. INSTRU ZYM is effective with all water temperatures, also with cold water. Warm water accelerates the cleaning performance. The optimal working temperature is between 30°C and 45°C. Drinking water is necessary for the preparation of the solution. If the drinking water is very hard, we recommend distilled water.

**Storage conditions:** do not allow temperatures below 0 °C or above 30 °C; do the product not expose to direct sunlight; keep the store dry

