

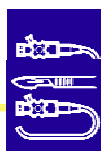
Korsolex[®] Endo-Cleaner

Korsolex[®] Endo-Disinfectant

Automated Reprocessing of Endoscopes



Proven and comprehensively surveyed system for the chemo-thermal reprocessing of endoscopes with high material compatibility, very good cleaning performance and a broad spectrum of effect including HAV.



Korsolex[®] Endo-Cleaner

Korsolex[®] Endo-Disinfectant

With Korsolex[®] Endo-Cleaner and Korsolex[®] Endo-Disinfectant, BODE CHEMIE provides a system for the chemo-thermal reprocessing of endoscopes that has proved its effectiveness millions of times over more than 12 years. The products are used in the temperature range of 50-60 °C for the automated reprocessing of flexible and rigid endoscopes and of equipment used in anaesthesia and intensive care.

Above all, the two products convince by their high degree of material compatibility, excellent cleaning power and exceptional efficacy. The system for the chemo-thermal reprocessing of endoscopes has not only proved its effectiveness in practice for more than a decade – its exceptional performance has also been testified in numerous expert reports.

Manual pre-cleaning

Careful cleaning provides the pre-conditions for subsequent successful disinfection. The RKI therefore recommends manual pre-cleaning with careful flushing and brushing of the endoscope channels, even when machine chemo-thermal endoscope reprocessing is to be carried out. Korsolex[®] Endo-Cleaner can also be used as a manual pre-cleaning agent for endoscopes and other instruments.

Manual disinfection

When using manual disinfectants, only aldehyde-containing preparations may be used. The use of aldehyde-free preparations can result in chemical reactions.

Chemo-thermal reprocessing

Korsolex[®] Endo-Cleaner and Korsolex[®] Endo-Disinfectant are dosed via the machines' own pumps. Automated reprocessing begins with a cleaning step. To achieve thorough cleaning, the temperature in the cleaning solution should be 45 – 55 °C. The high compatibility of the two products allows the subsequent disinfection to be carried out in the same solution. This does not influence the micro-biological effectiveness. However, separate solutions for cleaning and disinfection are always preferable. Korsolex[®] Endo-Cleaner and Korsolex[®] Endo-Disinfectant contain complexing agents to keep water-hardening agents in suspension and thus prevent lime-scale deposits in the machine and the endoscopes. The final rinse should be carried out with demineralised water. Follow the machine manufacturer's recommendations and carry out regular maintenance.

Machine processes

The following reprocessing programme is to be preferred:

1. cold pre-rinse without the use of product, 1-3 min
2. cleaning with Korsolex[®] Endo-Cleaner, dosing at 30 °C 0.5 %, cleaning at 45-55 °C, 5 minutes
3. intermediate rinse
4. disinfection with Korsolex[®] Endo-Disinfectant, dosing at 30 °C, disinfection 1 %, 55 °C, 5 minutes
5. intermediate rinse
6. final rinse
7. drying

Change of product

In case the product is changed, adaptation to the dosing system must be made. The dosing volume must correspond to the product's density. Follow machine and product manufacturer's instructions closely.

Korsolex[®] Endo-Cleaner

Product Properties

- excellent solving capacity for oil, dirt, blood and biofilm
- high degree of material compatibility for machine and endoscope
- little foaming
- economical
- phosphate-free
- environmentally friendly
- compatible with Korsolex[®] Endo-Disinfectant

Composition

Surfactants, solvents, dispersants, micro-encapsulated enzymes, corrosion-inhibitors, complexing agents.

Spectrum of effect

The exceptional cleaning power of Korsolex[®] Endo-Cleaner has been confirmed in many studies, e.g.:

■ Microorganism reduction and macroscopic cleanliness

In a study¹ in which for the first time the results of ten commercially marketed cleaning processes in a washer-disinfector were evaluated, Korsolex[®] Endo-Cleaner came out best³.

The study investigated and evaluated the macroscopic cleanliness and microorganism reduction achieved with the predominantly enzymatic cleaning products. Dosage, time and temperature were in accordance with the manufacturer's instructions and the test designs used in Germany. In addition, the cleaning process was also carried out with water only and then evaluated.

The use of only water resulted in a microorganism reduction of 1.1 log. In contrast, Korsolex[®] Endo-Cleaner achieved the required microorganism reduction of at least 4 log steps in addition to an excellent visual cleanliness.

■ Effectiveness against biofilm

Korsolex[®] Endo-Cleaner is highly effective against biofilms. This claim was confirmed in a study² that investigated the product's efficacy against *Pseudomonas aeruginosa* biofilm. With a concentration of 1 % and a contact time of 5 minutes at 45 °C, Korsolex[®] Endo-Cleaner reduced the biofilm by 1.85 log steps. This is a significant cleaning result with regard to biofilms.



Korsolex[®] Endo-Cleaner

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Directions for use

■ Chemo-thermal endoscope reprocessing

Korsolex[®] Endo-Cleaner is supplied as a concentrate and is connected to the dosing pumps in accordance with the machine manufacturer's recommendations. The incorporated surfactants and enzymes permit excellent cleaning power.

■ Manual cleaning

Korsolex[®] Endo-Cleaner can also be used as a cleaner for manual instrument reprocessing.

Dosage

General: 0.5 % 5 min at 45 – 55 °C

Listing

CE labelling in accordance with the Medical Device Directive (MDD).

Chemical-physical data

Appearance	light yellow, clear liquid
Density (20 °C)	approx. 1.08 g/cm ³
<u>0.5 % solution</u>	
pH-value	approx. 6

Presentation

5 litre canister, 10 litre canister.

Korsolex[®] Endo-Disinfectant

Product Properties

- high degree of material compatibility for machine and endoscope
- compatible with different water qualities
- virucidal
- formaldehyde-free
- compatible with Korsolex[®] Endo-Cleaner

Korsolex[®] Endo-Disinfectant is a residue-free, exceptionally material-compatible disinfectant for chemo-thermal reprocessing of endoscopes. The product achieves a high micro-organism reduction and offers staff and patients an effective protection against infection.

Composition

Active ingredient in 100 g: Glutaral 20.0 g.
Other ingredients: Solvents, complexing agents, corrosion inhibitors.

Microbiological activities

Bactericidal, fungicidal, tuberculocidal, virucidal against enveloped viruses (incl. HBV, HIV, HCV), virucidal (parvo-, adeno-, papova-, polio-, vacciniaviruses and HAV). Also effective against antibiotic-resistant organisms, *Helicobacter pylori* and Ascaris eggs. Effectiveness against bacterial spores has been proven in tests under practical conditions.

Spectrum of effect

The broad microbiological spectrum of effect of Korsolex[®] Endo-Disinfectant has been confirmed in several studies.

■ Virucidal effectiveness

The effectiveness of disinfectants against viruses has been regulated with the classifications "virucidal against enveloped viruses" and "virucidal".

"Virucidal against enveloped viruses" indicates an effectiveness against all enveloped viruses, "virucidal" indicates effectiveness against enveloped and the more difficult to inactivate non-enveloped viruses.

■ Effectiveness against HAV

In addition to the obligatory test viruses that have to be used in order to claim a virucidal effect, Korsolex[®] Endo was also tested for its effect against HAV (Hepatitis A, HM-175/24a)³. The test was carried out in accordance with the DVV (German Association for the Control of Virus Diseases) guidelines for testing chemical disinfectants for effectiveness against viruses.

Korsolex[®] Endo-Disinfectant shows adequate virucidal effectiveness against HAV with a 1 % use-concentration and a temperature of 55 °C for 5 minutes.

■ Effectiveness against bacterial spores

Studies under practical conditions (two washer- disinfectors with single-channel connection according to EN ISO 15883-4) investigated the effect of the complete standard reprocessing procedure (cleaning and disinfection) on bacterial spores^{4,5}. It has been demonstrated that the complete reprocessing procedure reduces bacterial spores (*B. subtilis*) by more than 5 log steps.

Dosage

Bactericidal, fungicidal, tuberculocidal, virucidal against enveloped viruses (incl. HBV, HIV, HCV), virucidal incl. HAV:

1 % 5 min at 55 °C

Listing

CE labelling in accordance with the Medical Device Directive (MDD).



Korsolex[®] Endo-Cleaner

Korsolex[®] Endo-Disinfectant

Chemical-physical data

Appearance	colourless to light yellow, clear liquid
Density (20 °C) <u>1 % solution</u>	approx. 1.04 g/cm ³
pH-value	approx. 5 - 6

Presentation

5 litre canister, 10 litre canister.

Korsolex[®] Endo-Disinfectant

Labelling of the concentrate: C Corrosive. Contains: Glutaral. Flammable. Harmful by inhalation and if swallowed. Causes burns. May cause sensitisation by inhalation and skin contact. Do not breathe vapour/aerosol. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Korsolex[®] Endo-Cleaner

Labelling of the concentrate: Xi Irritate. Irritating to eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water.

10-08

- 1 B. Zühlsdorf, H. Floss, H. Martiny: Efficacy of 10 different cleaning processes in a washer-disinfector for flexible endoscopes, Journal of Hospital Infection 2004, 56:305-311
- 2 Dr. A. Stroh, Dipl.-Ing. R. Hötte, Institut für Labordiagnostik, Hygiene, Wiesbaden. Gutachten zur Reinigungswirkung des Reinigers zur chemothermischen Endoskopaufbereitung Korsolex[®] Endo-Cleaner im manuellen Tauchverfahren auf Wirksamkeit gegenüber Biofilm von *Pseudomonas aeruginosa*, 01.2002
- 3 Prof. Dr. M. H. Wolff, Universität Witten/Herdecke, Gutachten Viruzidie von Korsolex[®] Endo-Disinfectant gegen Hepatitis A-Virus, Stamm HM-175/24a
- 4 Mag. Dr. Miorini; Institut für angewandte Hygiene, Graz; Gutachten Prüfung auf Wirksamkeit des Reinigungs-Desinfektionsverfahrens Korsolex[®] Endo-Cleaner/Disinfectant in Kombination mit dem Reinigungs-Desinfektionsgerät für flexible Endoskope Wassenburg AdaptaScope; 21.10.2005
- 5 Mag. Dr. Miorini; Institut für angewandte Hygiene; Gutachten Prüfung auf Wirksamkeit des Reinigungs-Desinfektionsverfahrens Korsolex[®] Endo-Cleaner/Disinfectant in Kombination mit dem Reinigungs-Desinfektionsgerät für flexible Endoskope Olympus EDT 3; 11.07.2005