

Instru Plus (concentrate)

aldehyde based disinfectant

Medical product of the class IIb, CE 0481
Article number 90030 (2-litre bottle), 90031 (5-litre canister),
90032 (150ml bottle)

Type of product:

INSTRU PLUS is a classical, well tried, highly effective instrument disinfectant which has gained confidence among countless users. It is based on a special acetaldehyde formula with quaternary ammonium compounds. The very good material compatibility and the low usage concentrations allow the **economical reprocessing of all thermostable and thermolabile instruments, especially of anaesthetic accessories, flexible endoscopes and endoscope accessories**. INSTRU PLUS is suitable for the manual reprocessing by immersion and for the ultra sound bath (3% - 5 min) as well as for the reprocessing of flexible endoscopes with the circulation method in so called half- and full automates. The excellent material compatibility is confirmed by numerous references (also for acrylic layers).

Tested and released for **material compatibility** by three leading endoscope manufacturers of the world: **Karl Storz** (Germany), **Richard Wolf** (Germany), **Pentax** (Japan); test results being expected soon by: Fujinon (Japan).

Tested according to the **standard methods of the DGHM** (German Society of Microbiology and Hygiene), the EN-norms for disinfection of instruments (prEN 13624, prEN 13727, 14348, 14561, 14562, 14563) and according to the recommendations of the **Robert Koch Institute** for the efficacy against viruses.

Certification by University and Scientific Institutes expert opinions:

Bactericidal, fungicidal incl. *Aspergillus niger*, tuberculocidal incl. *M. Terrae*, according to the standard method of the DGHM and EN norms: (prEN 13624, prEN 13727, 14348, 14561, 14562, 14563):

Hygiene Nord GmbH, Greifswald 2004

Virucidal quantitative suspension test EN 14476

Polio + Adeno: 5% - 10 min

HygCen GmbH, Schwerin 2009

Efficacy against covered viruses:

BVDV/ Vaccinia (1% - 15 min):

Dr. Steinmann, Bremen 2004

Parvo (screening test):

Eurovir, Greifswald 2004

Efficiency against uncovered viruses:

Adeno 2% - 15 min, Papova, (SV40) 2% - 120 min

Dr. Steinmann, Bremen 2005

Virucidal quantitative suspension test EN 14476

Simian virus SV 40 (Papova virus): 5% - 10 min

HygCen GmbH, Schwerin 2011

Tuberculocidal test report (*Mycobacterium terrae* ATCC 15755; 2% - 15 min)

PD Dr. med. F.- A. Pitten, Giessen 2006

Tuberculocidal test report (*Mycobacterium terrae* ATCC 15755;
2% - 15 min; 3% - 5 min)

Hygiene Nord GmbH, Greifswald 2004

Test report on DHBV/Hepatitis B efficacy (2% - 15 min)

Dr. med. Vet. O. Thraenhart, Luckenwalde 2005

Instruments

manual treatment of instruments



Spectrum of effect:

Bactericidal, mycobactericidal, fungicidal incl. *Aspergillus niger*, tuberculocidal incl. *M. Terrae*, sporicidal, effective against non enveloped viruses: Polio + Adeno (5% - 10 min), Papova/SV40 (5% - 10 min), Parvo (3% - 120 min), effective against all enveloped viruses: DHBV/HBV (2% - 15 min), BVDV/Vaccinia incl. HIV/HCV (1% - 15 min)

Main advantages:

+ highly effective with 1, 2 or 3 %; + pleasant smell; + powerful cleaning; + very economical, + excellent material compatibility, + biologically degradable, + good skin tolerance with unintended short-contact.

Active ingredients

100 gr contain:

5,72g Formacetal,

3,50g Ethandial (Glyoxal),

0,95g Formaldehyde (Methanal),

4,90g Glutardialdehyde (Penthandial)

3,50g Alkyldimethylammoniummethosulfate
other ingredients: surfactants, corrosion inhibitors, preservatives, ph-value regulators.

Available Sizes: CE 0481

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

Chemical and physical data:

Appearance: clear, green liquid

Odour: aromatic, aldehyde like

Density: 1,047 - 1,057 g / cm³

nD²⁰: 1,365 - 1,370

PH-value: 4-5

PH-value of the 1%-usage solution: ca. 7

Shelf life:

3 years

Reuse life:

until 14 days (depends on the degree of
ling)

Dosage and usage: to be diluted in distilled or at least drinking water (best: 20-25°C) Immerse the instruments immediately after use. All surfaces and hollow spaces have to be covered resp. filled. Pay attention to the application concentrations and the working times. Take out the instruments, rinse them thoroughly with water and dry them.

Before the disinfection the instruments have to be cleaned (preferably with the enzymatic cleaner INSTRU ZYM).

Usage concentrations according to DGHM/EN (incl. M.terrae, M. Avium, A. Niger):

1% (10ml) concentrate + 99% (990ml) water, effective time 1 hour

2% (20ml) concentrate + 98% (980ml) water, effective time 30 min

3% (30ml) concentrate + 97% (970ml) water, effective time 15 min

3% (150ml) concentrate + 97% (4.850ml) water – effective time 15 min

- 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.

For cold sterilisation: 5% - 5 hours.

Drinking water can be used for the **final rinse** if it does not contain pathogen germs, otherwise distilled water. If the water is very hard or if its chloride content is high, we recommend for the final rinse fully desalted water.

The Instru Plus usage solution does not loose its efficiency in the presence of protein (blood) and can therefore be used several times. When immersing well pre-cleaned instruments the solution can be effective at least until 7 days. However, if the solution becomes turbid it should be changed (the effectiveness can be tested with formaldehyde test strips).

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

