



Instru Plus

Instrument disinfectant

EN - Instructions for use



Instru Plus

Concentrated liquid instrument disinfectant



Thank you for your purchase from Laboratorium Dr. Deppe. These instructions for use apply to the following product variants:

- Instru Plus

Please contact us if you have any questions about these instructions or how to use the product.

Your Laboratorium Dr. Deppe team



Laboratorium Dr. Deppe GmbH

Hooghe Weg 35

47906 Kempen

Germany

+49 (0) 2152 5565-0

E-Mail: info@drdeppe.de

Internet: www.drdeppe.de



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About these instructions for use

These instructions for use contain the necessary information for correctly using **Instru Plus** (hereinafter referred to as the „product“).

The instructions for use must be kept in the immediate vicinity of the product and must be available to the user at all times.

All persons using the product must have fully read and understood the instructions for use, in particular the chapter on safety, and the other applicable documents.

Report all serious incidents (damage, injuries, infections, etc.) that have occurred in connection with the product immediately to the manufacturer (see page 2), as well as to the competent authority of your country; in Germany, this is the BfArM (visit <https://www.bfarm.de> for contact information).

Other applicable documents

In addition to the instructions for use, the following documents must be observed:

- Labels on the packaging of the product
- Product data sheets
- Safety data sheets
- Operating instructions
- Dosing charts
- Information on the shelf lives of opened containers

The documents can be accessed on the website of Laboratorium Dr. Deppe GmbH or requested by e-mail.



Internet:
(www.drdeppe.de)



E-Mail:
(info@drdeppe.de)

Explanation of symbols

These instructions for use and the label on the product use symbols to draw attention to certain information and hazards.

Ensure the symbols remain legible for the entire service life of the product and replace them immediately if they become worn.

Symbol	Description
	The letters CE stand for European conformity; they indicate that the product conforms to the applicable requirements that European Community imposes on manufacturers.
	DrDeppe pictogram for instrument disinfection. It is a marketing element without a legal background.
	Product manufacturer
	Maximum shelf life
	Production lot number / batch number
	Item number
	Follow the instructions for use
	Medical device
	Unique device identifier
	Corrosive: causes severe skin burns and eye damage upon contact
	Acute toxicity (oral, dermal, inhalation)
	Health hazard

Safety

The following section provides information on the safe use of the product. Read and follow all safety instructions and contact the manufacturer if anything is unclear (see page 2).

Personal protective equipment

Personal protective equipment must be checked for integrity each time before use and replaced immediately in the event of damage or wear.

The following personal protective equipment must be worn when handling the product:

	Chemically resistant protective gloves (e.g. nitrile rubber or butyl rubber). EN 374.
	Wear closed safety glasses. EN 166.
	Wear suitable protective clothing. EN 340. EN 13034.
	In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. Filter: A/P1. EN 143.

Safety instructions

The following safety instructions apply when handling the product:

- The product must only be used for its intended use.
- The product may cause cancer.
- The product causes severe eye damage and may cause allergic skin reactions. Avoid contact with eyes or skin.
- Harmful by inhalation and/or if swallowed.
- Causes skin and respiratory irritation and may cause allergy, asthma-like symptoms or breathing difficulties if inhaled.
- Avoid inhaling mist, vapour and aerosols.
- Obtain special instructions before use.
- Efficacy is only guaranteed in the specified mixing ratio in compliance with the specified exposure times and temperature limits for application.
- Harmful to aquatic organisms, with long-term effects. Avoid release into the environment.
- Ensure good ventilation of the workplace and if necessary provide local exhaust or general room ventilation.
- Take all necessary precautions to prevent or minimise release of the product in the workplace.
- Extensively ventilate areas contaminated with the product.
- Do not eat, drink or smoke when using the product.
- Keep the product out of direct sunlight and away from food, drink and animal feeding stuffs.
- Wash hands thoroughly after handling the product.
- Do not wear work clothes outside the workplace and wash separately before wearing again.
- Keep the amount of product used to the minimum necessary and minimise the number of users exposed to the product.
- Do not combine the product with amine-based cleaners or disinfectants.
- If instruments are not adequately pre-cleaned, protein fixation may occur due to the aldehydes contained.
- Not suitable for spraying.
- Not suitable for final disinfection of critical instruments requiring sterilisation.

Safety measures

When using **Instru Plus**, take the following safety measures.

After ingestion:

- Rinse mouth. Do not induce vomiting. Call a physician immediately.

In case of contact with the skin (or hair):

- Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

If inhaled:

- Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.

In case of eye contact:

- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Accidental release measures:

- Only qualified personnel equipped with suitable protective equipment may intervene.
- Ventilate spillage area. Do not breathe gas, mist, vapours, spray.
- Avoid penetration into the subsoil and prevent seepage into drains and public waters.
- Absorb spilled liquid with absorbent. Pick up the released product mechanically (wipe up, sweep up) and collect it in suitable containers for disposal.
- Notify authorities immediately if product enters drains or public waters.

Intended use

Instru Plus is a concentrated disinfectant for the reprocessing of medical instruments using the insertion method or the rinse-through method.

User requirements

This product is exclusively intended for use by trained healthcare professionals and cleaning professionals in the healthcare sector.

All persons using the product must have read and understood the entire instructions for use, in particular the chapter on safety, before use.

Storage environment requirements

The product is suitable for use in all areas where medical instruments are reprocessed using the insertion method and for all common circulation methods (cold methods).

The product is intended for use within the following temperature ranges. No effectiveness data is available for use outside these temperature limits.

Description	Unit	Value
Recommended ambient temperature for use (min. - max.)	[°C]	20 - 25

Material compatibility

Not suitable for latex, EPDM (ethylene-propylene-diene rubber) and polymethacrylate.

When using new materials, check the material compatibility in advance.

Product features

Instru Plus is an aldehydic, concentrated instrument disinfectant for the reprocessing of medical instruments in the insertion/immersion and rinse-through procedure.

Instru Plus is particularly suitable for the final disinfection of semi-critical instruments (thermolabile and thermostable instruments such as flexible and rigid endoscopes and endoscopic auxiliary instruments).

Instru Plus is bactericidal, levurocidal, tuberculocidal, mycobactericidal, fungicidal, active against enveloped viruses and virucidal effective.

Instru Plus serves to prevent diseases caused by viruses and bacteria by reducing the number of pathogenic germs and thus minimising the probability of infection.

Composition

The following information applies to each 100 g of the product.

Instru Plus	Unit	Value
Glutaral	[g]	4,8
(Ethylenedioxy)dimethanol	[g]	15,0
Formaldehyde	[g]	0,996

Chemico physical properties

Feature	Characteristics
Colour	green, clear
State	liquid
pH-value (20 °C)	3,4 - 4,0
Density (20 °C)	1,0416 - 1,0516 g/ml

Recommended exposure times

The effectiveness of the product depends on the combination of concentration and exposure time of the product on the instrument. The instruments to be disinfected are inserted. Cavities must be safely rinsed-through.

Influencing factors:

- Contaminants such as blood, saliva, etc. may influence the disinfectant's effectiveness.
- Effectiveness is only guaranteed when the indicated mixing ratio is used, in compliance with the specified exposure times and temperature limits for the application.
- Keep the instruments soaked with working solution for the entire exposure time for a safe effect.

The recommended exposure times and concentrations for Instru Plus are shown in the table below.

Instru Plus	Condition		Norm	Concentration [%]	Exposure time [Min]
	dirty	clean			
Bactericidal	X		EN 13727	3	5
			EN 14561		
Yeasticidal	X		EN 13624	2	15
			EN 14562		
Fungicidal (A. brasiliensis)	X		EN 13624	4	30
			EN 14562		
Tuberculocidal (M. terrae)		X	EN 14348	4	30
			EN 14563	3	60
Mycobactericidal (M. terrae, M. avium)		X	EN 14348	5	30
			EN 14563	3	60
Active against enveloped viruses (Vaccinia strain Elstree, BVDV)	10 % FBS		DVV / RKI	1	5
Virucidal (Adenovirus type 5, Murine Norovirus, Poliovirus type 1, Polyoma SV40)	10 % FBS		DVV / RKI	4	15

Application

This chapter describes how to use the product safely and effectively.

Dosing Instru Plus correctly

The product is available as a concentrate for preparing a working solution. Prepare the working solution prior to use, taking into account the required concentration for the planned application.

1. Personal protective equipment: Wear chemical-resistant protective gloves, protective clothing, respiratory protection, and tight-fitting safety goggles (see page 6).
2. To protect high-quality instruments, mix the product with drinking-quality water to form a working solution (see table below).

Example of use: To prepare 10 litres of a 1% working solution, mix 9.9 litres of water with Instru Plus.

Total amount of working solution	Concentration of working solution [%]								
	0,25	0,5	1,0	1,5	2,0	2,5	3,0	4,0	5,0
	Quantity of disinfectant concentrate [ml]								
1 litre	2,5	5	10	15	20	25	30	40	50
2 litre	5,0	10	20	30	40	50	60	80	100
3 litre	7,5	15	30	45	60	75	90	120	150
4 litre	10,0	20	40	60	80	100	120	160	200
5 litre	12,5	25	50	75	100	125	150	200	250
6 litre	15,0	30	60	90	120	150	180	240	300
7 litre	17,5	35	70	105	140	175	210	280	350
8 litre	20,0	40	80	120	160	200	240	320	400
9 litre	22,5	45	90	135	180	225	270	360	450
10 litre	25,0	50	100	150	200	250	300	400	500

Instructions for use

Please observe the following instructions on how to use the product and contact the manufacturer if you have any questions or are unclear. Observe the hygiene requirements for the reprocessing of medical devices (in Germany: RKI, KRINKO, MPBetreibV).

- Follow the instructions on preparatory measures, cleaning and disinfection, rinsing and drying as well as storage in the instructions for use of the instrument and device manufacturers.
- The product is not compatible with disinfectants containing amine.
- Thoroughly clean and rinse all instruments, accessories, trays and applicators as well as application aids when using the product for the first time or when changing the product.

Using Instru Plus

Follow the steps below to disinfect instruments with the product.

1. Prepare the working solution according to the requirements for the intended use (see page 12).
2. Disinfect the instruments with the working solution using the insertion, immersion or rinsing method. Keep the instruments to be disinfected soaked for the entire exposure time (see page 11).
3. Perform the final rinse after disinfection with sterile water (drinking water quality).

ATTENTION: For semi-critical medical devices that are not sterilised, use aseptic, preferably sterile water for the final rinse.

Storage and disposal

This chapter describes how to properly store and dispose of Instru Plus.

Storage environment requirements

Store the product closed, and in a cool, well-ventilated place, and protect it from unauthorised access. Observe the following temperature limits for storage.

Description	Unit	Value
Temperature limits for short-term storage (min. - max.)	[°C]	0 - 40 ¹⁾
Ambient temperature for long-term storage according to shelf life (min. - max.)	[°C]	15 - 20

¹⁾ Short-term storage (max. 24 hrs) up to a max. of 40°C has no impact on the product effectiveness.

Shelf life

Do not use the product after the expiry date indicated on the packaging. Dispose of it properly.

The product can be stored for 12 months after opening if the container is closed.

Disposing of Instru Plus

Dispose of the product in accordance with official regulations.

Also observe the information in the safety data sheet for the concentrate and the working solution.



Ordering details

For orders from Laboratorium Dr. Deppe, use the item numbers given below.

Instru Plus

Item number	Container size
601397	6 x 2 Liter
601327	2 x 5 Liter



DrDeppe

Laboratorium Dr. Deppe GmbH

Hooghe Weg 35

47906 Kempen

Germany

+49 (0) 2152 5565-0

E-Mail: info@drdeppe.de

Internet: www.drdeppe.de

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