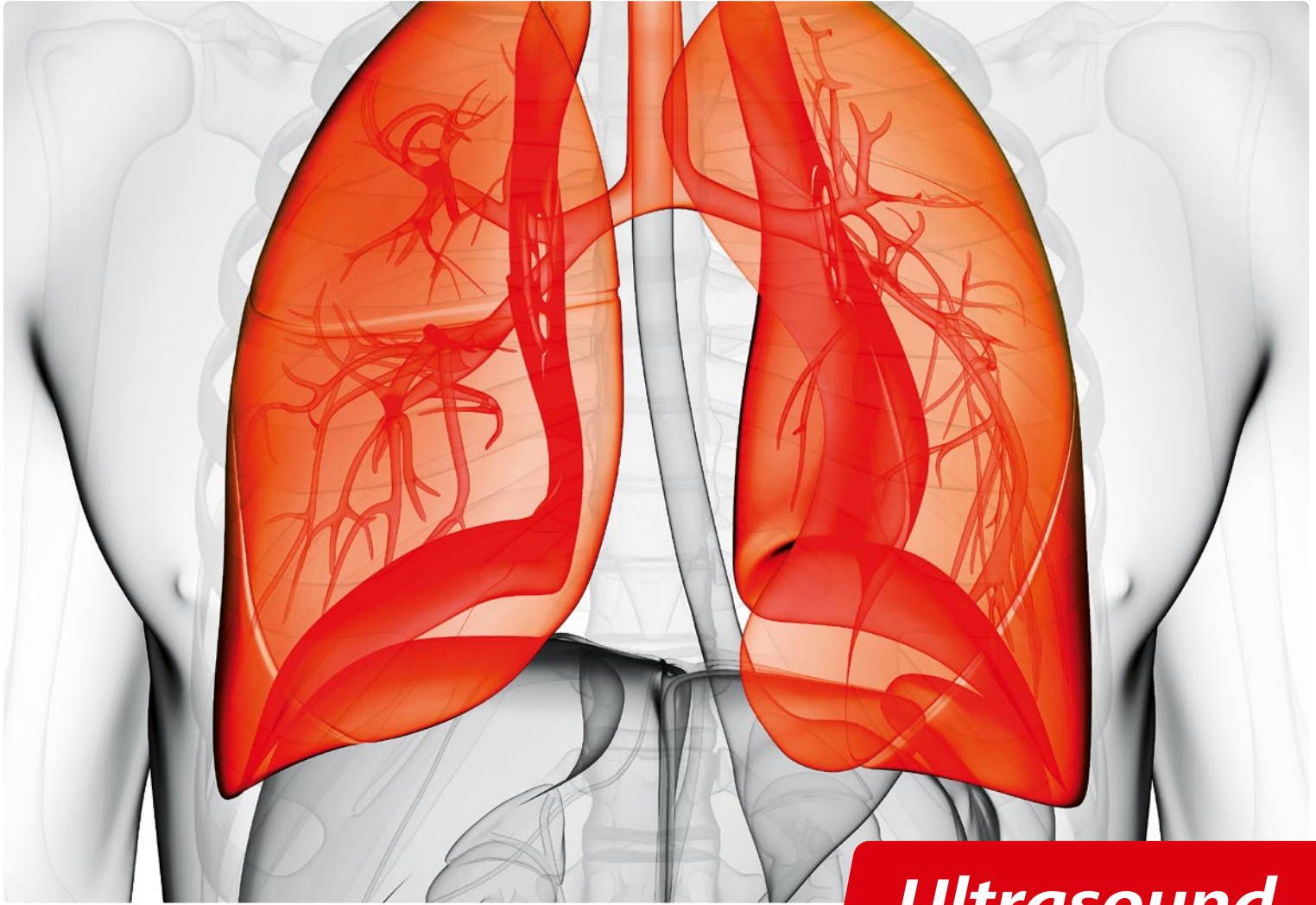


Canon

Made For life



Ultrasound

Ultrasound System Transducer
Aplio, Aplio i-Series



Part of the COVID-19
Support Package

Guidelines for cleaning, disinfection, and sterilization of transducers

This manual describes the cleaning, disinfection, and sterilization procedures for the ultrasound transducer.
For the operating precautions and procedures for the transducers, refer to the operation manual for each transducer.

Trademarks

This manual may include trademarks or registered trademarks of companies other than Canon Medical Systems.

1. Safety Precautions

1.1 Meaning of Signal Words

In this manual, the signal words **DANGER**, **WARNING**, **CAUTION**, and *NOTICE* are used regarding safety and other important instructions. The signal words and their meanings are defined as follows. Please understand their meanings clearly before reading this manual.

| Signal word | Meaning |
|-----------------|--|
| ⚠DANGER | Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. |
| ⚠WARNING | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. |
| ⚠CAUTION | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. |
| <i>NOTICE</i> | Indicates a potentially hazardous situation which, if not avoided, may result in property damage. |

1.2 Safety Precautions

Observe the following precautions to ensure the safety of patients as well as operators when performing cleaning, disinfection, or sterilization of the transducer.

⚠WARNING **Never immerse the transducer connector or any other non-waterproof sections into liquids such as water or cleaning solution. Immersion may cause electric shock. Refer to the tables and figures in section 3 for the immersible range of each transducer model.**

⚠CAUTION **1. Precautions concerning cleaning, disinfection, and sterilization.**

1) Observe the following precautions to prevent infection.

- **Wear protective gloves when performing cleaning.***
- **Wear sterile protective gloves when performing disinfection or sterilization.***
- **Wear new protective gloves each time cleaning, disinfection, and sterilization are performed.**
- **Clean the transducer before and after examination. Disinfect or sterilize the transducer as required.**
- **Note that local regulations may require that the transducer be disinfected before sterilization.**
- **Sterilize the transducer and biopsy adaptor before and after an ultrasound-guided biopsy procedure is performed. Failure to do so may result in the transducer and biopsy adaptor becoming sources of infection.**

* Refer to the FDA's March 29, 1991 Medical Alert on Latex Products.

⚠ CAUTION

- 2) After cleaning, rinse the transducer thoroughly with purified water to remove all chemical residues. After disinfection, rinse the transducer thoroughly with sterile or deionized water to remove all chemical residues.
Chemical residues on the transducer may be harmful to the human body.
- 3) After chemical cleaning or chemical disinfection, thoroughly dry the transducer surface.
- 4) After sterilization, degas the transducer. Gas residues on the transducer may be harmful to the human body.
- 5) The efficacy of the cleaning solutions, disinfectants, and sterilizing gases is not guaranteed by Canon Medical Systems. Contact the manufacturers for information on the activity of the products.
- 6) To ensure the prevention of infection, confirm the effectiveness of each chemical for cleaning, disinfection, or sterilization based on the criteria (such as effective period, number of times of use, discoloration, and results of using the effectiveness test kit) described in the documentation provided by the relevant manufacturer.
- 7) Do not clean, disinfect, or sterilize the transducer using chemicals or methods other than those specified in this guide. If chemicals or methods other than those specified in this guide are used, the transducer may not be properly cleaned, disinfected, or sterilized or may be damaged.
- 8) Observe the following precautions to prevent transducer malfunction.
 - Only soft materials such as soft cloth or soft gauze should be used when removing ultrasound gel from the transducer or wiping water or disinfectant from the transducer surface after cleaning or disinfection. Use of hard or abrasive cloth or gauze may damage the transducer.
 - The transducer must not be immersed in a chemical solution for more than three hours.
 - Do not permit the transducer to become overheated (more than 60°C (140°F)) during cleaning, disinfection, and sterilization.
 - The cleaning, disinfection, or sterilization conditions, such as the temperature and pressure, differ depending on the product. In addition, some products cannot be subjected to disinfection or sterilization procedures. Confirm the detailed conditions by referring to the tables and figures in section 3.

NOTE The mouthpiece supplied with the TEE transducer can be high-pressure steam sterilized (temperature: 134°C (273.2°F), holding time: 18 min). Confirm that "AUTOCLAVABLE" is indicated on the mouthpiece.

1.3 Chemical Hazard (for USA only)

Observe the following instruction in order to protect patients and operators from inflammation or poisoning by chemical substances.

⚠️ WARNING: This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer, and phthalates, which are known to the State of California to cause birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov.

1.4 Precautions Concerning Restriction of Sale or Use (for USA only)

United States law restricts this device to sale or use by, or on the order of a physician.

2. Cleaning, Disinfection, Sterilization

This section describes the methods for cleaning, disinfection, and sterilization.

2.1 Cleaning

<<Items to be used: Protective gloves, cleaning solution or cleaning wipes, purified water, clean soft cloth or gauze, single-use sponge*>>

* The single-use sponge must not include any abrasive parts or contain any abrasive cleanser.

- (1) Wear protective gloves to prevent infection.
Wear new protective gloves each time cleaning is performed.
- (2) If an accessory that can be disassembled (e.g., biopsy adaptor) is provided, disassemble it.
For details concerning such parts, refer to the operation manual for the transducer.
- (3) Wash off all organic materials (such as blood or other bodily fluids) from the transducer under purified water. A single-use sponge can be used for washing. Do not use a brush, because it may damage the transducer.
- (4) In accordance with the tables and figures in section 3, immerse the transducer in a cleaning solution or wipe the transducer using wipes to dissolve or remove all remaining organic materials. Use a single-use sponge if necessary. If dried organic materials are present on the transducer, immerse it in the cleaning solution for a prolonged period.
- (5) Remove all residual organic materials and cleaning solution from the transducer by rinsing it under purified water. Confirm that all organic materials and cleaning solution have been completely removed. Do not reuse the purified water.
- (6) Dry the surface of the transducer using clean soft cloth or gauze. Do not use heat to dry the transducer.
Handle the cleaning solution or wipes as described in the documentation provided by the relevant manufacturer. To maintain the effectiveness of the cleaning solution or wipes, ensure that the concentration, temperature, and other conditions specified in the documentation provided by the manufacturer are met. To confirm the effectiveness of the cleaning solution or wipes, use the criteria (such as effective period, number of times of use, discoloration, and results of using the effectiveness test kit) described in the documentation provided by the manufacturer.
- (7) Confirm that the transducer shows no signs of damage, deformation, or peeling.

2.2 Disinfection

Before disinfection, the transducer must be cleaned.

Note that local regulations may require that the transducer be disinfected before sterilization.

<<Items to be used: Sterile protective gloves, disinfectant, sterile water or deionized water, sterile soft cloth or gauze>>

- (1) Wear sterile protective gloves to prevent infection.
Wear new sterile protective gloves each time disinfection is performed.
- (2) Disinfect the transducer using the chemicals listed in section 3 "List of Chemicals".
- (3) Rinse the transducer thoroughly with sterile or deionized water, as described in the documentation provided by the manufacturer, in order to remove all residual disinfectant. (Rinsing is not necessary when gas disinfection is performed using Trophon EPR or Trophon 2.) Do not reuse the sterile or deionized water.
- (4) Dry the surface of the transducer using sterile soft cloth or gauze.
Do not use heat to dry the transducer.
Handle the disinfectant as described in the documentation provided by the relevant manufacturer.
To maintain the effectiveness of the disinfectant, ensure that the concentration, temperature, and other conditions specified in the documentation provided by the manufacturer are met. To confirm the effectiveness of the disinfectant, use the criteria (such as effective period, number of times of use, discoloration, and results of using the effectiveness test kit) described in the documentation provided by the manufacturer.
- (5) Confirm that the transducer shows no signs of damage, deformation, or peeling.

2.3 Sterilization

Before sterilization, the transducer must be cleaned.

Note that local regulations may require that the transducer be disinfected before sterilization.

<<Items to be used: Sterile protective gloves, sterilant>>

* Some types of transducers cannot be sterilized or the sterilization conditions may differ.

- (1) Wear sterile protective gloves to prevent infection.
Wear new sterile protective gloves each time sterilization is performed.
- (2) Sterilize the transducer using the chemicals listed in section 3 "List of Chemicals".
* Place the transducer in a sterilization packing case and then place it in the sterilizer.
- (3) After gas sterilization, perform aeration to remove all gas residues on the transducer surface.
- (4) Confirm that the transducer shows no signs of damage, deformation, or peeling.

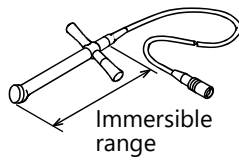
3. List of Chemicals

This section lists the chemicals used when washing, disinfecting, or sterilizing the transducer. Refer to the lists for the available chemicals.

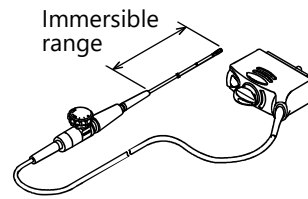
In addition, refer to the manuals for the chemicals for the handling details.

- NOTE
1. When multiple model names included in the List of Chemicals are referred to, note that they are abbreviated. For example, "PLT-604AT and PLT-704AT" is abbreviated as "PLT-604AT/704AT".
 2. For the transducers supported by each diagnostic ultrasound system, refer to the operation manual supplied with the diagnostic ultrasound system.

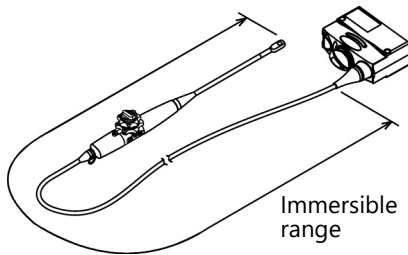
- Type A (PC-20M etc.)



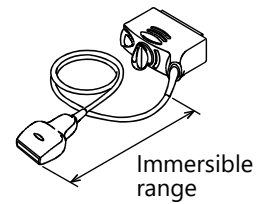
- Type B (PET-508MA etc.)



- Type C (PET-511BTM etc.)



- Type D (PLT-704AT etc.)



Never immerse the non-waterproof sections of the transducer into liquids such as water or cleaning solution. Immersion may cause electric shock.

Cleaning (1/2)

Country of origin :

Any : Any country

FRA : France

DEU : Germany

GBR : United Kingdom

USA : United States

JPN : Japan

AUS : Australia

| | Chemical name/type | Enzyme | | | |
|---|--------------------------------|------------------|--------------------------------|--------------------|---------------------------|
| | | Trade name | 3M™ Rapid Multi-Enzyme cleaner | ANIOSYME DD1 *2 | neodisher® mediclean *2 |
| | Manufacturer | J&J | 3M Company | Laboratories ANIOS | DR. WEIGERT GmbH & Co. KG |
| | Country of origin | Any | Any | FRA | DEU |
| | Concentration (Dilution ratio) | 0.8% (125) | 1% (100) | 0.5% (200) | 1% (100) |
| | Time | 1 min. | 10 min. | 5 min. | 10 min. |
| | Temperature | Room temperature | | Room temperature | |
| | Humidity | Normal humidity | | Normal humidity | |
| | Pressure | Normal pressure | | Normal pressure | |
| Model name | Immersible range | | | | |
| PC-20M | Type A | OK | OK | OK | OK |
| PC-50M | Type A | OK | OK | OK | OK |
| PET-508MA | Type B | OK | OK | - | - |
| PET-512MA/512MC | Type B | OK | OK | - | - |
| PET-511BTM*1 | Type C | OK | OK | OK | - |
| PET-512MD*1, PEI-512VX*1 | Type C | OK | OK*2 | OK | - |
| PET-609MA*1 | Type C | OK | OK*2 | OK | - |
| PET-805LA | Type C | OK | - | - | - |
| PLT-604AT/704AT/805AT/1202S/1204BT PVT-375BT/375SC/382BT/661VT/674BT | Type D | OK | OK | OK | OK |
| PST-25BT/65AT | Type D | OK | OK | OK | OK |
| PVT-745BTF/745BTH | Type D | OK | OK | OK | OK |
| PLT-308P/308BTP, PVT-770RT | Type D | OK | OK | OK | OK |
| PLT-705BTF/705BTH | Type D | OK | OK | OK | OK |
| PVT-745BTV | Type D | OK | OK | OK | OK |
| PVT-350BTP | Type D | OK | OK | OK | OK |
| PLT-1204BX | Type D | OK | OK | OK | OK |
| PLT-704SBT/705BT/1005BT PVT-781VT/781VTE | Type D | OK | OK | OK | OK |
| PLT-704ST | Type D | OK | OK | OK | OK |
| PLT-1204ST, PVT-375ST | Type D | OK | OK | OK | OK |

OK : Use of the chemical is permitted. : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or cleaning solution.

*2: Not for use in the USA.

| Enzyme | | | | | Isopropyl alcohol/ Ethylene glycol monobutyl ether | Alkyl dimethyl benzyl ammonium chloride/2-ethanol/ Alkyl polysaccharide/ Ethylenediamine tetraacetic acid |
|----------------------------------|--------------------------|-----------------------|---------------------|---------------------------------|--|--|
| Tristel Pre-Clean Wipes *2 | MetriZyme® | Klenzyme® | Instru-Zyme® Gel | Endozime® Xtreme Power *2 | CaviWipes™ | Intercept® Wipes |
| Tristel Solutions Limited | Metrex Research, Inc. | STERIS Corporation | Summit Medical | RUHOF Corporation | Metrex Research, Inc. | MEDIVATORS Inc. |
| GBR | USA | USA | USA | USA | USA | USA |
| Working solution | 0.77% (130) | 0.8% (125) | Working solution | 0.2% (500) | Working solution | Working solution |
| Wiping only | 5 min. | 5 min. | Wiping only | 2 min. | Wiping only | |
| Room temperature | | Room temperature | | | Room temperature | |
| Normal humidity | | Normal humidity | | | Normal humidity | |
| Normal pressure | | Normal pressure | | | Normal pressure | |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | - | - |
| OK | OK | - | - | OK | - | - |
| OK | OK | - | - | OK | - | - |
| OK | OK | OK | - | OK | - | - |
| OK | OK*2 | - | - | OK | - | - |
| OK | OK*2 | - | - | OK | - | - |
| - | - | - | - | OK | - | - |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| - | OK | - | OK | OK | - | - |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |

Cleaning (2/2)

Country of origin :

Any : Any country

FRA : France

DEU : Germany

GBR : United Kingdom

USA : United States

JPN : Japan

AUS : Australia

| | Chemical name/type | Enzyme | | | |
|---|--------------------------------|------------------|--------------------------------|--------------------|---------------------------|
| | | Trade name | 3M™ Rapid Multi-Enzyme cleaner | ANIOSYME DD1 *2 | neodisher® mediclean *2 |
| | Manufacturer | J&J | 3M Company | Laboratories ANIOS | DR. WEIGERT GmbH & Co. KG |
| | Country of origin | Any | Any | FRA | DEU |
| | Concentration (Dilution ratio) | 0.8% (125) | 1% (100) | 0.5% (200) | 1% (100) |
| | Time | 1 min. | 10 min. | 5 min. | 10 min. |
| | Temperature | Room temperature | | Room temperature | |
| | Humidity | Normal humidity | | Normal humidity | |
| | Pressure | Normal pressure | | Normal pressure | |
| Model name | Immersible range | | | | |
| PST-25SX | Type D | OK | OK | – | OK |
| PST-25ST/50BT, PVT-712BT | Type D | OK | OK | OK | OK |
| PST-30BT | Type D | OK | OK | OK | OK |
| PLT-1204MV PVT-375MV/382MV/675MV/675MVL | Type D | OK | OK | OK | OK |
| PVT-681MV | Type D | OK | – | – | – |
| PVT-681MVL | Type D | OK | OK | OK | OK |
| PVL-715RST | Type D | OK | OK | OK | OK |
| PVI-475BX/475BT/574BX/482BX/450BXP PVT-475BT/482BT/574BT PLI-1205BX/2004BX/705BX PSI-30BX, PST-28BT/65BT | Type D | OK | OK | OK | OK |
| PSI-70BT | Type D | OK | OK | OK | OK |
| PSI-30VX/40VX | Type D | OK | OK | OK | OK |
| PSI-50VX | Type D | OK | OK | OK | OK |
| PLI-2002BT | Type D | OK | OK | OK | OK |
| PLI-3003BX | Type D | OK | OK | OK | OK |
| PLT-1202BT | Type D | OK | OK | OK | OK |
| PVT-675MVS | Type D | OK | OK | OK | OK |

OK : Use of the chemical is permitted. : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or cleaning solution.

*2: Not for use in the USA.

| Enzyme | | | | | Isopropyl alcohol/ Ethylene glycol monobutyl ether | Alkyl dimethyl benzyl ammonium chloride/2-ethanol/ Alkyl polysaccharide/ Ethylenediamine tetraacetic acid |
|----------------------------------|--------------------------|-----------------------|---------------------|---------------------------------|--|--|
| Tristel Pre-Clean Wipes *2 | MetriZyme® | Klenzyme® | Instru-Zyme® Gel | Endozime® Xtreme Power *2 | CaviWipes™ | Intercept® Wipes |
| Tristel Solutions Limited | Metrex Research, Inc. | STERIS Corporation | Summit Medical | RUHOF Corporation | Metrex Research, Inc. | MEDIVATORS Inc. |
| GBR | USA | USA | USA | USA | USA | USA |
| Working solution | 0.77% (130) | 0.8% (125) | Working solution | 0.2% (500) | Working solution | Working solution |
| Wiping only | 5 min. | 5 min. | Wiping only | 2 min. | Wiping only | |
| Room temperature | | Room temperature | | | Room temperature | |
| Normal humidity | | Normal humidity | | | Normal humidity | |
| Normal pressure | | Normal pressure | | | Normal pressure | |
| – | OK | – | OK | OK | – | – |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| – | OK | – | OK | OK | OK | OK |
| – | – | – | – | OK | OK | OK |
| OK | OK | – | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | – | OK | – | – |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | – | OK | OK | – |
| OK | OK | OK | – | OK | OK | – |
| OK | OK | OK | – | OK | OK | – |
| – | OK | OK | – | OK | – | – |
| OK | OK | OK | – | OK | OK | – |
| OK | OK | OK | – | OK | OK | – |

Low/Middle-Level Disinfection -1 (1/2) (Except for USA)

Note that local regulations may require that the transducer be disinfected before sterilization.

Country of origin :

Any : Any country

FRA : France

DEU : Germany

GBR : United Kingdom

USA : United States

JPN : Japan

AUS : Australia

| Chemical name/type | Didecyl dimethyl ammonium chlorides/ Quaternary ammonium compounds | Didecyl dimethyl ammonium chlorides |
|---|---|--|
| Trade name | CLEANISEPT® WIPES | WIP'ANIOS Excel |
| Manufacturer | Dr. Schumacher GmbH | Laboratories ANIOS |
| Country of origin | DEU | FRA |
| Concentration (Dilution ratio) | Working solution | Working solution |
| Time | Wiping only | Wiping only |
| Temperature | Room temperature | Room temperature |
| Humidity | Normal humidity | Normal humidity |
| Pressure | Normal pressure | Normal pressure |
| Model name | Pressure | Normal pressure |
| PC-20M | Immersible range | OK |
| | Type A | OK |
| PC-50M | Type A | OK |
| PET-508MA | Type B | – |
| PET-512MA/512MC | Type B | – |
| PET-511BTM* ¹ | Type C | – |
| PET-512MD* ¹ , PEI-512VX* ¹ | Type C | – |
| PET-609MA* ¹ | Type C | – |
| PET-805LA | Type C | – |
| PLT-604AT/704AT/805AT/1204BT PVT-375BT/375SC/382BT/674BT | Type D | OK |
| PST-25BT/65AT | Type D | OK |
| PVT-745BTF/745BTH | Type D | – |
| PLT-308P/308BTP | Type D | OK |
| PVT-770RT | Type D | – |
| PLT-705BTF/705BTH | Type D | OK* ² |
| PVT-745BTV, PLT-1202S | Type D | OK* ² |
| PVT-350BTP | Type D | – |
| PLT-1204BX | Type D | OK |
| PLT-704SBT/705BT/1005BT | Type D | OK |
| PVT-781VT/781VTE | Type D | – |
| PVT-661VT | Type D | – |
| PLT-704ST | Type D | OK |
| PLT-1204ST, PVT-375ST | Type D | OK |

OK : Use of the chemical is permitted. : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or cleaning solution.

*2: Not for use in the USA.

Low/Middle-Level Disinfection -1 (2/2) (Except for USA)

Note that local regulations may require that the transducer be disinfected before sterilization.

Country of origin :

Any : Any country

FRA : France

DEU : Germany

GBR : United Kingdom

USA : United States

JPN : Japan

AUS : Australia

| Chemical name/type | Didecyl dimethyl ammonium chlorides/ Quaternary ammonium compounds | Didecyl dimethyl ammonium chlorides |
|---|---|--|
| Trade name | CLEANISEPT® WIPES | WIP'ANIOS Excel |
| Manufacturer | Dr. Schumacher GmbH | Laboratories ANIOS |
| Country of origin | DEU | FRA |
| Concentration (Dilution ratio) | Working solution | Working solution |
| Time | Wiping only | Wiping only |
| Temperature | Room temperature | Room temperature |
| Humidity | Normal humidity | Normal humidity |
| Pressure | Normal pressure | Normal pressure |
| Model name | Immersible range | |
| PST-25SX | Type D | – |
| PST-50BT, PVT-712BT | Type D | OK |
| PST-25ST | Type D | OK |
| PST-30BT | Type D | OK |
| PLT-1204MV PVT-375MV/382MV/675MV/675MVL | Type D | OK |
| PVT-681MVL | Type D | – |
| PVT-681MV | Type D | – |
| PVL-715RST | Type D | – |
| PVI-475BX/475BT/574BX/482BX/450BXP PVT-475BT/482BT/574BT PLI-1205BX/2004BX/705BX PSI-30BX, PST-28BT/65BT | Type D | OK |
| PSI-70BT | Type D | OK |
| PSI-30VX/40VX | Type D | OK |
| PSI-50VX | Type D | OK |
| PLI-2002BT | Type D | OK |
| PLI-3003BX | Type D | OK |
| PLT-1202BT | Type D | OK |
| PVT-675MVS | Type D | OK |

OK : Use of the chemical is permitted. : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or cleaning solution.

*2: Not for use in the USA.

| |
|---|
| Glyoxal/Glutaral/ Didecyl dimethyl ammonium chlorides |
| Lysoformin® 3000 |
| Lysoform Disinfection Ltd. |
| DEU |
| 2% (50) |
| 15 min. |
| Room temperature |
| Normal humidity |
| Normal pressure |
| - |
| OK |
| OK |
| OK |
| OK |
| OK |
| - |
| - |
| - |
| OK |
| - |
| - |
| - |
| OK |
| OK |
| - |

Low/Middle-Level Disinfection -2 (1/2)

(High-level disinfection is also required in the USA.)

Note that local regulations may require that the transducer be disinfected before sterilization.

| |
|----------------------|
| Country of origin : |
| Any : Any country |
| FRA : France |
| DEU : Germany |
| GBR : United Kingdom |
| USA : United States |
| JPN : Japan |
| AUS : Australia |

| | Chemical name/type | Ethanol | Isopropyl alcohol | Isopropyl alcohol/ Ethylene glycol monobutyl ether | Sodium hypochlorite |
|---|-------------------------|-------------------------|-----------------------|---|---------------------|
| Trade name | Ethanol | Isopropyl alcohol | CaviWipes™ | Dispatch® Hospital Cleaner Disinfectant Towels with Bleach | |
| Manufacturer | Any manufacturer | Any manufacturer | Metrex Research, Inc. | The Clorox Company | |
| Country of origin | Any | Any | USA | USA | |
| Concentration (Dilution ratio) | 80% (original solution) | 70% (original solution) | Working solution | 0.65% (working solution) | |
| Time | Wiping only | Wiping only | Wiping only | Wiping only | |
| Temperature | Room temperature | Room temperature | Room temperature | Room temperature | |
| Humidity | Normal humidity | Normal humidity | Normal humidity | Normal humidity | |
| Model name | Pressure | Normal pressure | Normal pressure | Normal pressure | Normal pressure |
| PC-20M | Immersible range | – | OK | OK | OK |
| | Type A | – | OK | OK | OK |
| PC-50M | Type A | OK | OK | – | – |
| PET-508MA | Type B | OK | – | – | – |
| PET-512MA/512MC | Type B | OK*2 | – | – | – |
| PET-511BTM*1 | Type C | OK | – | – | – |
| PET-512MD*1, PEI-512VX*1 | Type C | OK | OK | – | – |
| PET-609MA*1 | Type C | OK | – | – | – |
| PET-805LA | Type C | – | – | – | – |
| PLT-604AT/704AT/805AT/1202S/1204BT PVT-375BT/375SC/382BT/674BT | Type D | OK | OK | OK | OK |
| PST-25BT/65AT | Type D | OK | OK | OK | OK |
| PVT-745BTF/745BTH | Type D | OK | OK | OK | OK |
| PLT-308P/308BTP | Type D | OK | OK | OK | OK |
| PVT-770RT | Type D | OK | OK | OK | OK |
| PLT-705BTF/705BTH | Type D | OK | OK | OK | – |
| PVT-745BTV | Type D | OK | OK | OK | – |
| PVT-350BTP | Type D | OK | OK | – | – |
| PLT-1204BX | Type D | OK | OK | OK | OK |
| PLT-704SBT/705BT/1005BT PVT-781VT/781VTE | Type D | OK | OK | OK | OK |
| PLT-704ST, PVT-661VT | Type D | OK | OK | OK | OK |
| PLT-1204ST, PVT-375ST | Type D | OK | OK | OK | OK |

OK : Use of the chemical is permitted. – : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or cleaning solution.

*2: Not for use in the USA.

| Quaternary ammonium chlorides | | Quaternary ammonium chlorides/ Isopropyl alcohol | | Decyldimethyloctylammonium chloride/ Dimethyldioctylammonium chloride/ Didecyldimethylammonium chloride/ Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Hydrogen peroxide |
|----------------------------------|--|---|-------------------------------|--|-------------------------|
| Protex™ Ultra Disinfectant Wipes | Sani-Cloth® AF3, Sani-Cloth® AF | Sani-Cloth® Plus | Super Sani-Cloth® | SONO Ultrasound Wipes | Oxivir 1 wipes |
| Parker Laboratories, Inc. | Professional Disposables International, Inc. | Professional Disposables International, Inc. | | Advanced Ultrasound Solutions Inc. | Diversey, Inc. |
| USA | USA | USA | | USA | USA |
| 0.232% (working solution) | 0.28% (working solution) | 0.25% / 14.85% (working solution) | 0.5% / 55% (working solution) | Working solution | 0.5% (working solution) |
| Wiping only | Wiping only | Wiping only | Wiping only | Wiping only | Wiping only |
| Room temperature | Room temperature | Room temperature | Room temperature | Room temperature | Room temperature |
| Normal humidity | Normal humidity | Normal humidity | Normal humidity | Normal humidity | Normal humidity |
| Normal pressure | Normal pressure | Normal pressure | Normal pressure | Normal pressure | Normal pressure |
| OK | OK | OK | OK | - | OK |
| - | OK | OK | OK | - | - |
| - | OK | - | - | - | - |
| - | OK | - | - | - | - |
| - | - | - | - | - | - |
| - | OK | - | - | - | - |
| - | OK | - | - | - | - |
| - | - | - | - | - | - |
| OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | - | OK |
| - | OK | OK | OK | - | - |
| - | OK | OK | OK | - | - |
| - | - | - | - | - | - |
| OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | - | OK |
| OK | OK | OK | OK | - | OK |

Low/Middle-Level Disinfection -2 (2/2)

(High-level disinfection is also required in the USA.)

Note that local regulations may require that the transducer be disinfected before sterilization.

| |
|----------------------|
| Country of origin : |
| Any : Any country |
| FRA : France |
| DEU : Germany |
| GBR : United Kingdom |
| USA : United States |
| JPN : Japan |
| AUS : Australia |

| Chemical name/type | Ethanol | Isopropyl alcohol | Isopropyl alcohol/ Ethylene glycol monobutyl ether | Sodium hypochlorite |
|--|-------------------------|-------------------------|--|---|
| Trade name | Ethanol | Isopropyl alcohol | CaviWipes™ | Dispatch® Hospital Cleaner Disinfectant Towels with Bleach |
| Manufacturer | Any manufacturer | Any manufacturer | Metrex Research, Inc. | The Clorox Company |
| Country of origin | Any | Any | USA | USA |
| Concentration (Dilution ratio) | 80% (original solution) | 70% (original solution) | Working solution | 0.65% (working solution) |
| Time | Wiping only | Wiping only | Wiping only | Wiping only |
| Temperature | Room temperature | Room temperature | Room temperature | Room temperature |
| Humidity | Normal humidity | Normal humidity | Normal humidity | Normal humidity |
| Model name | Pressure | Normal pressure | Normal pressure | Normal pressure |
| PST-25SX | Immersible range | OK | OK | – |
| | Type D | OK | OK | – |
| PST-50BT, PVT-712BT | Type D | OK | OK | OK |
| PST-25ST | Type D | OK | OK | OK |
| PST-30BT | Type D | OK | OK | OK |
| PLT-1204MV, PVT-375MV/382MV PVT-675MV/675MVL/681MVL | Type D | OK | OK | OK |
| PVT-681MV | Type D | OK | OK | OK |
| PVL-715RST | Type D | OK | OK | OK |
| PVI-475BX/475BT/574BX/482BX PVT-475BT/482BT/574BT PLI-1205BX/2004BX/705BX PSI-30BX, PST-28BT/65BT | Type D | OK | OK | OK |
| PVI-450BXP | Type D | OK | OK | OK |
| PSI-70BT | Type D | OK | OK | OK |
| PSI-30VX/40VX | Type D | OK | OK | OK |
| PSI-50VX | Type D | OK | OK | OK |
| PLI-2002BT | Type D | OK | OK | OK |
| PLI-3003BX | Type D | OK | OK | OK |
| PLT-1202BT | Type D | OK | OK | OK |
| PVT-675MVS | Type D | OK | OK | OK |

OK : Use of the chemical is permitted. – : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or cleaning solution.

*2: Not for use in the USA.

High-Level Disinfection -1 (1/2) (Except for USA)

Note that local regulations may require that the transducer be disinfected before sterilization.

Country of origin :

Any : Any country

FRA : France

DEU : Germany

GBR : United Kingdom

USA : United States

JPN : Japan

AUS : Australia

| Model name | Chemical name/type | Hydrogen peroxide, Peracetic acid | Chlorine dioxide | | |
|---|-----------------------------------|--------------------------------------|--|---|--------------------|
| | Trade name | PeraSafe™ *2 | Tristel Fuse for Instruments | Tristel Sporicidal Wipes/ Tristel Rinse Wipes | Tristel Duo ULT |
| | Manufacturer | DuPont | Tristel Solutions Limited | | |
| | Country of origin | Any | GBR | | |
| | Concentration (Dilution ratio) | 1.62% (61.7) | 0.012% (1 sachet in 5 liters of water) | Working solution | |
| | Time | 10 min. | 5 min. | Wiping only | |
| | Temperature | Room temperature | Room temperature | | |
| | Humidity | Normal humidity | Normal humidity | | |
| | Pressure | Normal pressure | Normal pressure | | |
| | Immersible range | | | | |
| PC-20M | Type A | OK | OK | OK | OK |
| PC-50M | Type A | OK | OK | OK | OK |
| PET-508MA | Type B | OK | – | OK | – |
| PET-512MA/512MC | Type B | OK | – | OK | – |
| PET-511BTM* ¹ | Type C | OK | OK | OK | – |
| PET-512MD* ¹ , PEI-512VX* ¹ | Type C | OK | – | OK | – |
| PET-609MA* ¹ | Type C | OK | – | OK | – |
| PET-805LA | Type C | – | – | – | – |
| PLT-604AT/704AT/805AT/1202S/1204BT PVT-375BT/375SC/382BT/661VT/674BT | Type D | OK | OK | OK | OK |
| PST-25BT/65AT | Type D | OK | OK | OK | OK |
| PVT-745BTF/745BTH | Type D | OK | OK | OK | OK |
| PLT-308P/308BTP, PVT-770RT | Type D | OK | OK | OK | OK |
| PLT-705BTF/705BTH | Type D | OK | OK | OK | OK |
| PVT-745BTV | Type D | OK | OK | OK | OK |
| PVT-350BTP | Type D | OK | OK | – | – |
| PLT-1204BX | Type D | OK | OK | OK | OK |
| PLT-704SBT/705BT/1005BT PVT-781VT/781VTE | Type D | OK | OK | OK | OK |
| PLT-704ST | Type D | OK | OK | OK | OK |
| PLT-1204ST, PVT-375ST | Type D | OK | OK | OK | OK |

OK : Use of the chemical is permitted. : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or cleaning solution.

*2: PeraSafe™ may be classified as a sterilizing agent or as a high-level disinfectant depending on the local regulations.

*3: For bacteria and fungi

*4: For virucidal

*5: For mycobactericidal

| Succindialdehyde | | Peracetic acid | | Ortho-phthalaldehyde | Sodium percarbonate/ Citric acid | Peracetic acid, Hydrogen peroxide, Acetic acid | | |
|------------------------|-----------|--------------------------------|--------------------------------|-----------------------------|-------------------------------------|---|-----------|------------------------|
| gigasept® FF (new) | | NU- CIDEX® | Anioxyde 1000 | Opal™ | Clinell® Sporicidal wipes | gigasept® PAA concentrate | | mikrozid® PAA wipes |
| Schülke & Mayr GmbH | | J&J | Laboratories ANIOS | Whiteley Medical | GAMA Healthcare Ltd. | Schülke & Mayr GmbH | | |
| DEU | | GBR | FRA | AUS | GBR | DEU | | |
| 5% (20) | | 0.35% (working solution) | 0.15% (working solution) | 0.57% (Working solution) | Working solution | 2% (a double-chambered bottle into 5 liters of water) | | Working solution |
| 15 min.*3 | 60 min.*4 | 5 min. | 30 min. | 6 min. | Wiping only | 5 min.*5 | 15 min.*4 | Wiping only |
| Room temperature | | Room temperature | | Room temperature | Room temperature | Room temperature | | |
| Normal humidity | | Normal humidity | | Normal humidity | Normal humidity | Normal humidity | | |
| Normal pressure | | Normal pressure | | Normal pressure | Normal pressure | Normal pressure | | |
| OK | - | OK | OK | - | - | OK | - | - |
| - | - | - | OK | OK | - | OK | - | - |
| OK | OK | - | - | OK | OK | OK | OK | OK |
| OK | OK | - | - | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| OK | OK | - | - | OK | OK | OK | OK | OK |
| OK | OK | OK | - | OK | OK | OK | OK | OK |
| - | - | - | - | OK | - | - | - | - |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| OK | OK | - | OK | OK | - | OK | OK | OK |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| OK | OK | - | OK | OK | - | OK | - | OK |
| OK | OK | - | OK | OK | - | OK | - | OK |
| OK | - | - | OK | OK | - | OK | - | - |
| OK | OK | - | OK | OK | - | OK | OK | OK |
| OK | OK | - | OK | OK | - | OK | OK | OK |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| OK | OK | - | OK | OK | - | OK | OK | OK |
| OK | OK | OK | OK | OK | - | OK | OK | OK |

High-Level Disinfection -1 (2/2) (Except for USA)

Note that local regulations may require that the transducer be disinfected before sterilization.

| |
|----------------------|
| Country of origin : |
| Any : Any country |
| FRA : France |
| DEU : Germany |
| GBR : United Kingdom |
| USA : United States |
| JPN : Japan |
| AUS : Australia |

| | Chemical name/type | Hydrogen peroxide, Peracetic acid | Chlorine dioxide | | |
|---|--------------------|-----------------------------------|--|--|-----------------|
| | Trade name | PeraSafe™ *2 | Tristel Fuse for Instruments | Tristel Sporicidal Wipes/ Tristel Rinse Wipes | Tristel Duo ULT |
| Manufacturer | DuPont | | Tristel Solutions Limited | | |
| Country of origin | Any | | GBR | | |
| Concentration (Dilution ratio) | 1.62% (61.7) | | 0.012% (1 sachet in 5 liters of water) | Working solution | |
| Time | 10 min. | | 5 min. | Wiping only | |
| Temperature | Room temperature | | Room temperature | | |
| Humidity | Normal humidity | | Normal humidity | | |
| Pressure | Normal pressure | | Normal pressure | | |
| PST-25SX | Immersible range | OK | – | – | – |
| | Type D | OK | OK | OK | OK |
| PST-25ST/50BT, PVT-712BT | Type D | OK | OK | OK | OK |
| PST-30BT | Type D | OK | OK | OK | OK |
| PLT-1204MV PVT-375MV/382MV/675MV/675MVL | Type D | OK | OK | – | – |
| PVT-681MV | Type D | – | – | – | – |
| PVT-681MVL | Type D | OK | OK | OK | OK |
| PVL-715RST | Type D | OK | OK | OK | OK |
| PVI-475BX/475BT/574BX/482BX/450BXP PVT-475BT/482BT/574BT PLI-1205BX/2004BX/705BX PSI-30BX, PST-28BT/65BT | Type D | OK | OK | OK | OK |
| PSI-70BT | Type D | OK | OK | OK | OK |
| PSI-30VX/40VX | Type D | OK | OK | OK | OK |
| PSI-50VX | Type D | OK | OK | OK | OK |
| PLI-2002BT | Type D | OK | OK | OK | OK |
| PLI-3003BX | Type D | – | OK | – | OK |
| PLT-1202BT | Type D | OK | OK | OK | OK |
| PVT-675MVS | Type D | OK | – | OK | OK |

OK : Use of the chemical is permitted. : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or cleaning solution.

*2: PeraSafe™ may be classified as a sterilizing agent or as a high-level disinfectant depending on the local regulations.

*3: For bacteria and fungi

*4: For virucidal

*5: For mycobactericidal

| Succindialdehyde | | Peracetic acid | | Ortho-phthalaldehyde | Sodium percarbonate/ Citric acid | Peracetic acid, Hydrogen peroxide, Acetic acid | | |
|---------------------|-----------|--------------------------|--------------------------|--------------------------|-------------------------------------|---|-----------|---------------------|
| gigasept® FF (new) | | NU-CIDEX® | Anioxyde 1000 | Opal™ | Clinell® Sporidical wipes | gigasept® PAA concentrate | | mikrozyd® PAA wipes |
| Schülke & Mayr GmbH | | J&J | Laboratories ANIOS | Whiteley Medical | GAMA Healthcare Ltd. | Schülke & Mayr GmbH | | |
| DEU | | GBR | FRA | AUS | GBR | DEU | | |
| 5% (20) | | 0.35% (working solution) | 0.15% (working solution) | 0.57% (Working solution) | Working solution | 2% (a double-chambered bottle into 5 liters of water) | | Working solution |
| 15 min.*3 | 60 min.*4 | 5 min. | 30 min. | 6 min. | Wiping only | 5 min.*5 | 15 min.*4 | Wiping only |
| Room temperature | | Room temperature | | Room temperature | Room temperature | Room temperature | | |
| Normal humidity | | Normal humidity | | Normal humidity | Normal humidity | Normal humidity | | |
| Normal pressure | | Normal pressure | | Normal pressure | Normal pressure | Normal pressure | | |
| OK | - | - | - | OK | - | OK | - | - |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| OK | - | OK | OK | OK | - | OK | - | OK |
| OK | OK | - | - | OK | - | OK | OK | OK |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| OK | OK | - | OK | OK | - | OK | OK | OK |
| - | - | OK | OK | OK | - | OK | OK | OK |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| - | - | OK | OK | OK | - | OK | OK | OK |
| - | - | OK | OK | OK | - | OK | OK | OK |
| - | - | OK | OK | OK | - | OK | OK | OK |
| - | - | OK | OK | OK | - | - | - | - |
| OK | OK | OK | OK | OK | - | OK | OK | OK |
| - | - | OK | OK | OK | - | - | - | OK |

High-Level Disinfection -2 (1/2)

Note that local regulations may require that the transducer be disinfected before sterilization.

Country of origin :

Any : Any country

FRA : France

DEU : Germany

GBR : United Kingdom

USA : United States

JPN : Japan

AUS : Australia

| Chemical name/type | Glutaraldehyde | | | | |
|---|----------------------------|----------------------------|--|----------------------------|------------------------------|
| | Trade name | CIDEX [®] | CIDEX PLUS [®] 28 day solution | MetriCide [®] | MetriCide [®] 28 |
| Manufacturer | J&J | | Metrex Research, Inc. | | |
| Country of origin | Any | | USA | | |
| Concentration (Dilution ratio) | 2.4% (working solution) | 3.4% (working solution) | 2.6% (working solution) | 2.5% (working solution) | 3.4% (working solution) |
| Time | 45 min. | 20 min. | 45 min. | 90 min. | 90 min. |
| Temperature | Room temperature | | 25°C (77°F) | | |
| Humidity | Normal humidity | | Normal humidity | | |
| Pressure | Normal pressure | | Normal pressure | | |
| Model name | Immersible range | | | | |
| PC-20M | Type A | OK | | OK | |
| PC-50M | Type A | OK | | - | |
| PET-508MA | Type B | OK | | OK | |
| PET-512MA/512MC | Type B | OK | | OK | |
| PET-511BTM ^{*1} | Type C | OK | | OK | |
| PET-512MD ^{*1} , PEI-512VX ^{*1} | Type C | OK | OK ^{*3} | OK | |
| PET-609MA ^{*1} | Type C | OK | OK ^{*3} | OK | |
| PET-805LA | Type C | - | | - | |
| PLT-604AT/704AT/805AT/1202S/1204BT PVT-375BT/375SC/382BT/674BT | Type D | OK | | OK | |
| PST-25BT/65AT | Type D | OK | | OK | |
| PVT-745BTF/745BTH | Type D | OK | | OK | |
| PLT-308P/308BTP | Type D | OK | | OK | |
| PVT-770RT | Type D | OK | | OK | |
| PLT-705BTF/705BTH | Type D | OK | | OK | |
| PVT-745BTV | Type D | OK | | OK | |
| PVT-350BTP | Type D | OK | | OK | |
| PLT-1204BX | Type D | OK | | OK | |
| PLT-704SBT/705BT/1005BT PVT-781VT/781VTE | Type D | OK | | OK | |
| PLT-704ST, PVT-661VT | Type D | OK | | OK | |
| PLT-1204ST, PVT-375ST | Type D | OK | | OK | |

OK : Use of the chemical is permitted. : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or disinfectant.

*2: For transducers with a thin cable, use a Trophon[®] EPR with a serial number beginning with 24100 or higher or a transducer cable clamp "T-Clamp". Please contact your Trophon[®] EPR representative for further information.

*3: Not for use in the USA.

| Glutaraldehyde | | Ortho-phthalaldehyde | Hydrogen peroxide | | | |
|------------------------------|--------------------------|--------------------------|---|------------|-------------------------|---|
| WAVICIDE® -01 | Sporicidin® | CIDEX® OPA | Trophon® EPR | Trophon® 2 | SPOROX® II | Revital-Ox™ Resert® High Level Disinfectant |
| Medical Chemical Corporation | Contec Inc. | J&J | Nanosonics Limited | | Sultan Healthcare | STERIS Corporation |
| USA | USA | Any | AUS | | USA | USA |
| 2.5% (working solution) | 1.12% (working solution) | 0.55% (working solution) | Use the disinfectant cartridges specifically designed for the disinfection device. There are no disinfection related parameters (temperature, humidity, pressure, or time) to be set by the operator. | | 7.5% (working solution) | 2% (working solution) |
| 45 min. | 20 min. | 12 min. | | | 30 min. | 8 min. |
| Room temperature | Room temperature | Room temperature | | | Room temperature | Room temperature |
| Normal humidity | Normal humidity | Normal humidity | | | Normal humidity | Normal humidity |
| Normal pressure | Normal pressure | Normal pressure | | | Normal pressure | Normal pressure |
| OK | - | - | - | - | OK | OK |
| OK | - | OK | - | - | - | - |
| OK | - | OK | - | - | - | - |
| OK | - | OK | - | - | - | - |
| OK | OK | OK | - | - | - | - |
| OK | - | OK | - | - | - | OK |
| OK | - | OK | - | - | - | OK |
| - | - | OK | - | - | - | - |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK*2 | OK | OK | OK |
| OK | OK | OK | OK*2 | OK | OK | OK |
| OK | OK | OK | - | - | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | - |
| OK | OK | OK | OK*2 | OK | OK | - |
| OK | OK | OK | - | - | - | - |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | - | OK | OK |
| OK | OK | OK | OK | - | OK | OK |

High-Level Disinfection -2 (2/2)

Note that local regulations may require that the transducer be disinfected before sterilization.

| |
|----------------------|
| Country of origin : |
| Any : Any country |
| FRA : France |
| DEU : Germany |
| GBR : United Kingdom |
| USA : United States |
| JPN : Japan |
| AUS : Australia |

| Chemical name/type | Glutaraldehyde | | | | |
|--|----------------------------|--|----------------------------|------------------------------|-----------------------------------|
| | Trade name | CIDEX PLUS [®] 28 day solution | MetriCide [®] | MetriCide [®] 28 | MetriCide [®] Plus 30 |
| Manufacturer | J&J | | Metrex Research, Inc. | | |
| Country of origin | Any | | USA | | |
| Concentration (Dilution ratio) | 2.4% (working solution) | 3.4% (working solution) | 2.6% (working solution) | 2.5% (working solution) | 3.4% (working solution) |
| Time | 45 min. | 20 min. | 45 min. | 90 min. | 90 min. |
| Temperature | Room temperature | | 25°C (77°F) | | |
| Humidity | Normal humidity | | Normal humidity | | |
| Pressure | Normal pressure | | Normal pressure | | |
| Model name | Pressure | Normal pressure | Normal pressure | | |
| PST-25SX | Immersible range | OK | - | | |
| | Type D | OK | - | | |
| PST-50BT, PVT-712BT | Type D | OK | OK | | |
| PST-25ST | Type D | OK | OK | | |
| PST-30BT | Type D | OK | OK | | |
| PLT-1204MV, PVT-375MV/382MV PVT-675MV/675MVL/681MVL | Type D | OK | OK | | |
| PVT-681MV | Type D | OK | - | | |
| PVL-715RST | Type D | OK | OK | | |
| PVI-475BT/574BX, PVT-475BT/482BT/574BT PLI-1205BX/2004BX | Type D | OK | OK | | |
| PVI-475BX/482BX/450BXP, PSI-30BX PST-28BT/65BT, PLI-705BX | Type D | OK | OK | | |
| PSI-70BT | Type D | OK | OK | | |
| PSI-30VX/40VX | Type D | OK | OK | | |
| PSI-50VX | Type D | OK | OK | | |
| PLI-2002BT | Type D | OK | OK | | |
| PLI-3003BX | Type D | OK | OK | | |
| PLT-1202BT | Type D | OK | OK | | |
| PVT-675MVS | Type D | OK | OK | | |

OK : Use of the chemical is permitted. - : Use of the chemical is not permitted.

*1: If a waterproof cover is placed over the transducer connector, the entire transducer can be immersed in water or disinfectant.

*2: For transducers with a thin cable, use a Trophon[®] EPR with a serial number beginning with 24100 or higher or a transducer cable clamp "T-Clamp". Please contact your Trophon[®] EPR representative for further information.

*3: Not for use in the USA.

| Glutaraldehyde | | Ortho-phthalaldehyde | Hydrogen peroxide | | | |
|------------------------------|--------------------------|--------------------------|---|------------|-------------------------|---|
| WAVICIDE® -01 | Sporicidin® | CIDEX® OPA | Trophon® EPR | Trophon® 2 | SPOROX® II | Revital-Ox™ Resert® High Level Disinfectant |
| Medical Chemical Corporation | Contec Inc. | J&J | Nanosonics Limited | | Sultan Healthcare | STERIS Corporation |
| USA | USA | Any | AUS | | USA | USA |
| 2.5% (working solution) | 1.12% (working solution) | 0.55% (working solution) | Use the disinfectant cartridges specifically designed for the disinfection device. There are no disinfection related parameters (temperature, humidity, pressure, or time) to be set by the operator. | | 7.5% (working solution) | 2% (working solution) |
| 45 min. | 20 min. | 12 min. | | | 30 min. | 8 min. |
| Room temperature | Room temperature | Room temperature | | | Room temperature | Room temperature |
| Normal humidity | Normal humidity | Normal humidity | | | Normal humidity | Normal humidity |
| Normal pressure | Normal pressure | Normal pressure | | | Normal pressure | Normal pressure |
| - | OK | OK | - | - | - | - |
| OK | OK | OK | OK*2 | OK | OK | OK |
| OK | OK | OK | OK*2 | - | OK | OK |
| OK | OK | OK | OK*2 | OK | OK | OK |
| OK | - | OK | OK | OK | OK | OK |
| - | - | OK | OK | OK | OK | OK |
| OK | OK | OK | - | - | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK*2 | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | OK | OK | OK | OK |
| OK | OK | OK | - | - | - | - |
| OK | OK | OK | OK | OK | OK | OK |
| OK | - | OK | OK | OK | OK | OK |

Sterilization

Note that local regulations may require that the transducer be disinfected before sterilization.

| |
|----------------------|
| Country of origin : |
| Any : Any country |
| FRA : France |
| DEU : Germany |
| GBR : United Kingdom |
| USA : United States |
| JPN : Japan |
| AUS : Australia |

| Model name | Pressure | Chemical name/type | | Ethylene oxide gas ^{*2} | | Hydrogen peroxide plasma ^{*3} | | |
|---|-----------------|--------------------|------------------|----------------------------------|--------------------------------|--|---|---|
| | | Trade name | Manufacturer | Country of origin | Concentration (Dilution ratio) | Time | Temperature | Humidity |
| PC-20M/50M | 980 hPa [gauge] | Ethylene oxide gas | Any manufacturer | Any | 10% | 20% ^{*7} | STERRAD [®] 50/100S/200/NX | STERRAD [®] 100NX |
| PET-508MA ^{*1} /512MA ^{*1} /512MC ^{*1} /511BTM ^{*1} | | | | | | | J&J | J&J |
| PET-512MD ^{*1} , PEI-512VX ^{*1} /PET-609MA ^{*1} | | | | | | | Any | Any |
| PET-805LA | | | | | | | Use STERRAD system cassettes specifically designed for the sterilizer. | |
| PLT-604AT/704AT/805AT, PST-25BT/65AT | | | | | | | There are no sterilization related parameters (temperature, humidity, pressure, or time) to be set by the operator. | Select [SHORT Cycle] for STERRAD 100S/200 ^{*5} and [STANDARD Cycle] for STERRAD NX. |
| PLT-1204BT, PVT-382BT/661VT/674BT | | | | | | | | |
| PVT-375BT/375SC | | | | | | | | |
| PVT-745BTF/745BTH | | | | | | | There are no sterilization related parameters (temperature, humidity, pressure, or time) to be set by the operator. | Select [EXPRESS Cycle]. There are no sterilization related parameters (temperature, humidity, pressure, or time) to be set by the operator. |
| PLT-308P ^{*4} , PVT-770RT | | | | | | | | |
| PLT-705BTF/705BTH | | | | | | | | |
| PVT-745BTV | | | | | | | | |
| PVT-350BTP ^{*4} , PLT-308BTP ^{*4} | | | | | | | | |
| PLT-1204BX | | | | | | | | |
| PLT-704SBT/705BT/1005BT | | | | | | | | |
| PLT-704ST | | | | | | | | |
| PLT-1204ST, PVT-375ST | | | | | | | | |
| PST-25SX | | | | | | | | |
| PST-25ST/50BT, PVT-712BT | | | | | | | | |
| PST-30BT | | | | | | | | |
| PLT-1204MV, PVT-375MV/382MV | | | | | | | | |
| PVT-675MV/675MVL/681MV/681MVL | | | | | | | | |
| PVT-781VT/781VTE | | | | | | | | |
| PVL-715RST | | | | | | | | |
| PVI-475BX/475BT/574BX/482BX | | | | | | | | |
| PVT-475BT/482BT/574BT | | | | | | | | |
| PLI-1205BX/2004BX/705BX | | | | | | | | |
| PSI-30BX, PST-28BT/65BT | | | | | | | | |
| PSI-70BT | | | | | | | | |
| PLT-1202S | | | | | | | | |
| PSI-30VX/40VX | | | | | | | | |
| PSI-50VX | | | | | | | | |
| PLI-2002BT | | | | | | | | |
| PLI-3003BX | | | | | | | | |
| PLT-1202BT | | | | | | | | |
| PVT-675MVS | | | | | | | | |
| PVI-450BXP | | | | | | | | |

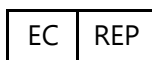
OK : Use of the chemical is permitted. - : Use of the chemical is not permitted.

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- *1: The mouthpieces supplied with the TEE transducer can be sterilized by high-pressure steam sterilization (temperature: 134°C (273.2°F), holding time: 18 min). Confirm that "AUTOCLAVABLE" is indicated on the mouthpiece.
 - *2: After sterilization, thoroughly degas the transducer to remove all gas residues on the transducer.
 - *3: Note that the label on the transducer may fade and the connector handle may become difficult to turn. These are not abnormalities.
 - *4: The biopsy adaptors, needle stopper, and depth gauge supplied with the transducer can be also sterilized by high-pressure steam sterilization (temperature: 134°C (273.2°F), holding time: 18 min).
 - *5: For STERRAD 100S/200 for the USA, no Cycle option is provided.
 - *6: One transducer can be sterilized per sterilization cycle. Do not perform sterilization for more than one item at a time.
 - *7: Not for use in the USA.
 - *8: There may be sticky areas on the cable, however, this is not a fault. If there are sticky areas, wipe them with a soft cloth or gauze moistened with ethanol.
 - *9: These items have been confirmed to withstand 120 cycles of sterilization using the method described in this manual.
 - *10: These items have been confirmed to withstand 240 cycles of sterilization using the method described in this manual.

4. Other Information

- For Europe

CANON MEDICAL SYSTEMS EUROPE B.V.



Zilverstraat 1, 2718 RP
Zoetermeer, The Netherlands

<https://eu.medical.canon>

For other countries, please contact your local distributor.

- Legal manufacturer



Canon Medical Systems Corporation
1385, Shimoishigami, Otawara-shi, Tochigi 324-8550, Japan