

Guidelines for cleaning, disinfection, and sterilization of the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor

This manual describes the procedures for cleaning, disinfecting, and sterilizing the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor used with the ultrasound transducers for Canon Medical Systems diagnostic ultrasound systems.

For the precautions and detailed information concerning use of the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor, refer to the corresponding operation manuals.

Trademarks

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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 biopsy adaptor, water bag, coupler, or magnetic sensor securing adaptor.

⚠WARNING Clean and sterilize the biopsy adaptor before and after each biopsy procedure. Note that local regulations may require that the biopsy adaptor be disinfected before sterilization. If the biopsy adaptor has not been properly sterilized, the biopsy adaptor may become a source of infection.

⚠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 water bag and coupler and then disinfect or sterilize them before and after each examination.

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

⚠ CAUTION

- 2) After chemical cleaning, rinse the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor thoroughly with purified water. After chemical disinfection, rinse these items thoroughly with sterile water or deionized water.
Chemical residues may be harmful to the human body.**
 - 3) After chemical cleaning or chemical disinfection, thoroughly dry the surfaces of the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor.**
 - 4) After gas sterilization, perform aeration to degas the biopsy adaptor, water bag, and coupler.
Gas residues on these items 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.**
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⚠ CAUTION

- 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 biopsy adaptor, water bag, or coupler 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 item may not be properly cleaned, disinfected, or sterilized or may be damaged.
 - 8) 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 in section 3.
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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, purified water, clean soft cloth or gauze, single-use sponge*, soft single-use brush>>

* 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.

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- (2) Confirm that all parts are disassembled. Disassemble all parts that are not yet disassembled. For further information on parts that can be disassembled, refer to the operation manuals for the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor.
 - (3) Wash off all organic materials (such as blood or other bodily fluids) from the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor with purified water. A single-use sponge can be used to wash the water bag. The water bag is made of a very thin membrane. Do not apply excessive force to the water bag during washing. For the biopsy adaptor and coupler, a single-use sponge or soft single-use brush can be used. Do not use a hard brush because it may damage the biopsy adaptor or coupler. Use a soft single-use brush to wash the inside of the needle guide of the biopsy adaptor.
Use a new sponge or brush each time washing is performed. If a sponge or brush is reused, it may become a source of infection.
 - (4) In accordance with the tables in section 3, immerse the biopsy adaptor, water bag, coupler, or magnetic sensor securing adaptor in a cleaning solution to dissolve or remove all remaining organic materials. Use a single-use sponge or soft single-use brush if necessary. The cleaning solution must reach the inside of the needle guide. If dried organic materials are present on an item, immerse it in the cleaning solution for a prolonged period.
 - (5) Remove all residual organic materials and chemical from the biopsy adaptor, water bag, coupler, or magnetic sensor securing adaptor by rinsing with purified water.

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- (6) Dry the surface of the biopsy adaptor, water bag, coupler, or magnetic sensor securing adaptor with clean soft cloth or gauze or an air blower. Be sure to dry the inside of the needle guide. Do not use heat for drying. Confirm that all organic materials and chemical have been completely removed.
 - (7) For the detailed handling procedures for a chemical, refer to the documentation provided by the manufacturer of the chemical. In order to maintain the effectiveness of the chemical, be sure to observe the specified concentration, replacement interval, working temperature, and other requirements. Determine the effectiveness of the chemical based on the criteria (effective period, number of times of use, discoloration of the chemical, results of testing using effectiveness test kits, etc.) described in the documentation provided by the manufacturer of the chemical.
 - (8) Confirm that the biopsy adaptor, coupler, and magnetic sensor securing adaptor are free of damage, deformation, or peeling and that they are functioning normally.
Confirm that the water bag is free of damage, deformation, or peeling.

2.2 Disinfection

Before disinfection, the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor must be cleaned. Note that local regulations may require that the biopsy adaptor, water bag, and coupler be disinfected before sterilization.

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

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- (1) Wear sterile protective gloves to prevent infection.
Wear new sterile protective gloves each time disinfection is performed.
 - (2) Disinfect the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor using the chemicals listed in section 3 "List of Chemicals".
The disinfectants must reach the inside of the needle guide. Use a soft single-use brush if necessary.
 - (a) After performing disinfection, remove all residual chemical from the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor with sterile or deionized water. Do not reuse the sterile or deionized water.
 - (b) Dry the surfaces of the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor with sterile soft cloth or gauze or an air blower. Be sure to dry the inside of the needle guide. Do not use heat for drying.
Confirm that all organic materials and chemical have been completely removed.
For the detailed handling procedures for a chemical, refer to the documentation provided by the manufacturer of the chemical.
 - (3) 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.

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- (4) Confirm that the biopsy adaptor, coupler, and magnetic sensor securing adaptor are free of damage, deformation, or peeling and that they are functioning normally.
Confirm that the water bag is free of damage, deformation, or peeling.

2.3 Sterilization

Before sterilization, the biopsy adaptor, water bag, and coupler must be cleaned.

Note that local regulations may require that the biopsy adaptor, water bag, and coupler be disinfected before sterilization.

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

* Some types of biopsy adaptor, water bag, or coupler 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) Drain the water from the water bag before sterilizing the water bag.
- (3) Sterilize the biopsy adaptor, water bag, or coupler using the chemicals listed in section 3 "List of Chemicals".
 - * Place the biopsy adaptor, water bag, or coupler in a sterilization packing case, and then place it in the sterilizer.
- (4) In the case of high-pressure steam sterilization, heat the steam by performing prevacuuming three times and then start sterilization (sterilization temperature: 134°C (273.2°F), holding time: 18 minutes).
Dry the items after sterilization.

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- (5) After gas sterilization, perform aeration to remove all gas residues on the sterilized items. (Aeration is not required after hydrogen peroxide plasma sterilization.)
 - (6) Confirm that the biopsy adaptor and coupler are free of damage, deformation, or peeling and that they are functioning normally.
Confirm that the water bag is free of damage, deformation, or peeling.

3. List of Chemicals

This section lists the chemicals used when cleaning, disinfecting, or sterilizing the biopsy adaptor, water bag, coupler, and magnetic sensor securing adaptor.

Refer to the lists for the available chemicals.

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

NOTE For the transducers that support each item, refer to the operation manual supplied with the corresponding item.

Cleaning

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	CIDEZYME®	3M™ Rapid Multi-Enzyme cleaner
Manufacturer	J&J	3M Company
Country of origin	Any	Any
Concentration (Dilution ratio)	0.8% (125)	1% (100)
Time	1 min.	10 min.
Temperature	Room temperature	
Humidity	Normal humidity	
Pressure	Normal pressure	

Water bag/ coupler	Model name *1		OK
	UAWB-021A UAWB-022A		
Biopsy adaptor *2	UAGL-001AHA UAGL-002AHA UAGL004A UAGL-004AHA	UAGV-024A UAGV-027A UAGV-028A UAGV-029A	OK
	UAGV020A UAGV-023A	UAGV-030A UAGV-034A	
	UAGV-035A UAGV-036A		OK
	UAGL-015A	UAGV-031A UAGV-032A UAGV-033A	OK
Magnetic sensor securing adaptor	UAFS-001A UAFS-003A UAFS-005A UAFS-007A UAFS-009A UIFR-A500	UAFS-002A UAFS-004A UAFS-006A UAFS-008A UAFS-010A	OK

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

Enzyme					
ANIOSYME DD1 *3	neodisher® mediclean *3	Tristel Pre-Clean Wipes *3	MetriZyme®	Klenzyme®	Instru- Zyme® Gel
Laboratories ANIOS	DR. WEIGERT GmbH & Co. KG	Tristel Solutions Limited	Metrex Research, Inc.	STERIS Corporation	Summit Medical
FRA	DEU	GBR	USA	USA	USA
0.5% (200)	1% (100)	Working solutions	0.77% (130)	0.8% (125)	Working solution
5 min.	10 min.	Wiping only	5 min.	5 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		–	–	–	–

*1: Note that some of the listed models may not be available in some regions. For the transducers that support each item, refer to the operation manual supplied with the corresponding item.

*2: Sterilize the biopsy adaptor before and after use.

*3: Not for use in the USA.

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

* Note that local regulations may require that the biopsy adaptor, water bag, and coupler 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
Trade name	CLEANISEPT® WIPES
Manufacturer	Dr. Schumacher GmbH
Country of origin	DEU
Concentration (Dilution ratio)	Working solution
Time	Wiping only
Temperature	Room temperature
Humidity	Normal humidity
Pressure	Normal pressure

Water bag/ coupler	Model name *1		OK
	UAWB-021A UAWB-022A		
Biopsy adaptor *2	UAGL-001AHA	UAGV-024A	-
	UAGL-002AHA	UAGV-027A	
	UAGL004A	UAGV-028A	
	UAGL-004AHA	UAGV-029A	
	UAGV020A	UAGV-030A	
	UAGV-023A	UAGV-034A	
	UAGV-035A		-
	UAGV-036A		
	UAGL-015A	UAGV-031A UAGV-032A UAGV-033A	-
Magnetic sensor securing adaptor	UAFS-001A	UAFS-002A	-
	UAFS-003A	UAFS-004A	
	UAFS-005A	UAFS-006A	
	UAFS-007A	UAFS-008A	
	UAFS-009A	UAFS-010A	
	UIFR-A500		

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

Isopropyl alcohol/ Didecyl dimethyl ammonium chlorides	Glyoxal/Glutaral/ Didecyl dimethyl ammonium chlorides
WIP'ANIOS	Lysoformin [®] 3000
Laboratories ANIOS	Lysoform Disinfection Ltd.
FRA	DEU
Working solution	2% (50)
Wiping only	15 min.
Room temperature	Room temperature
Normal humidity	Normal humidity
Normal pressure	Normal pressure
OK	OK
–	–
–	–
–	–
–	–

*1: Note that some of the listed models may not be available in some regions. For the transducers that support each item, refer to the operation manual supplied with the corresponding item.

*2: Sterilize the biopsy adaptor before and after use.

Low/Middle-Level Disinfection -2

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

* Note that local regulations may require that the biopsy adaptor, water bag, and coupler 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
Trade name	Ethanol
Manufacturer	Any manufacturer
Country of origin	Any
Concentration (Dilution ratio)	80% (original solution)
Time	Wiping only
Temperature	Room temperature
Humidity	Normal humidity
Pressure	Normal pressure

Water bag/ coupler	Model name *1		OK
	UAWB-021A UAWB-022A		
Biopsy adaptor *2	UAGL-001AHA UAGL-002AHA UAGL004A UAGL-004AHA	UAGV-024A UAGV-027A UAGV-028A UAGV-029A	–
	UAGV020A UAGV-023A	UAGV-030A UAGV-034A	
	UAGV-035A UAGV-036A		–
	UAGL-015A	UAGV-031A UAGV-032A UAGV-033A	–
Magnetic sensor securing adaptor	UAFS-001A UAFS-003A UAFS-005A UAFS-007A UAFS-009A UIFR-A500	UAFS-002A UAFS-004A UAFS-006A UAFS-008A UAFS-010A	–

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

Isopropyl alcohol
Isopropyl alcohol
Any manufacturer
Any
70% (original solution)
Wiping only
Room temperature
Normal humidity
Normal pressure
OK
-
-
-
-

*1: Note that some of the listed models may not be available in some regions. For the transducers that support each item, refer to the operation manual supplied with the corresponding item.

*2: Sterilize the biopsy adaptor before and after use.

High-Level Disinfection -1 (Except for USA)

* Note that local regulations may require that the biopsy adaptor, water bag, and coupler 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™*3	Tristel Fuse for Instruments	Tristel Sporicidal Wipes/ Tristel Rinse Wipes
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	

Water bag/ coupler	Model name *1		OK	OK	OK
	UAWB-021A UAWB-022A				
Biopsy adaptor *2	UAGL-001AHA	UAGV-024A	OK	OK	-
	UAGL-002AHA	UAGV-027A			
	UAGL004A	UAGV-028A			
	UAGL-004AHA	UAGV-029A			
	UAGV020A	UAGV-030A			
	UAGV-023A	UAGV-034A			
	UAGV-035A		OK	OK	-
	UAGV-036A				
	UAGL-015A	UAGV-031A UAGV-032A UAGV-033A	OK	-	-
Magnetic sensor securing adaptor	UAFS-001A	UAFS-002A	OK	OK	-
	UAFS-003A	UAFS-004A			
	UAFS-005A	UAFS-006A			
	UAFS-007A	UAFS-008A			
	UAFS-009A	UAFS-010A			
	UIFR-A500				

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

Succindialdehyde	Peracetic acid		Peracetic acid, Hydrogen peroxide, Acetic acid
gigasept [®] FF (new)	NU-CIDEX [®]	Anioxyde 1000	gigasept [®] PAA concentrate
Schülke & Mayr GmbH	J&J	Laboratories ANIOS	Schülke & Mayr GmbH
DEU	GBR	FRA	DEU
5% (20)	0.35% (working solution)	0.15% (working solution)	2% (a double-chambered bottle into 5 liters of water)
15 min.	5 min.	30 min.	5 min.
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

*1: Note that some of the listed models may not be available in some regions. For the transducers that support each item, refer to the operation manual supplied with the corresponding item.

*2: Sterilize the biopsy adaptor before and after use.

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

High-Level Disinfection -2

* Note that local regulations may require that the biopsy adaptor, water bag, and coupler 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
Manufacturer	J&J	J&J
Country of origin	Any	
Concentration (Dilution ratio)	2.4% (working solution)	3.4% (working solution)
Time	45 min.	20 min.
Temperature	Room temperature	
Humidity	Normal humidity	
Pressure	Normal pressure	

Water bag/ coupler	Model name *1		OK
	UAWB-021A UAWB-022A		
Biopsy adaptor *2	UAGL-001AHA UAGL-002AHA UAGL004A UAGL-004AHA	UAGV-024A UAGV-027A UAGV-028A UAGV-029A	–
	UAGV020A UAGV-023A	UAGV-030A UAGV-034A	
	UAGV-035A UAGV-036A		–
	UAGL-015A	UAGV-031A UAGV-032A UAGV-033A	–
Magnetic sensor securing adaptor	UAFS-001A UAFS-003A UAFS-005A UAFS-007A UAFS-009A UIFR-A500	UAFS-002A UAFS-004A UAFS-006A UAFS-008A UAFS-010A	–

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

Glutaraldehyde					Ortho-phthalaldehyde
MetriCide™	MetriCide™ 28	MetriCide™ Plus 30	WAVICIDE® -01	Sporicidin®	CIDEX® OPA
Metrex Research, Inc			Medical Chemical Corporation	Contec Inc.	J&J
Metrex Research, Inc			USA	USA	Any
2.6% (working solution)	2.5% (working solution)	3.4% (working solution)	2.65% (working solution)	1.12% (working solution)	0.55% (working solution)
45 min.	90 min.	90 min.	45 min.	20 min.	12 min.
25°C (77°F)			Room temperature	Room temperature	Room temperature
Normal humidity			Normal humidity	Normal humidity	Normal humidity
Normal pressure			Normal pressure	Normal pressure	Normal pressure
OK			OK	OK	OK
-			-	-	OK
-			-	-	OK
-			-	-	OK
-			-	-	OK

*1: Note that some of the listed models may not be available in some regions. For the transducers that support each item, refer to the operation manual supplied with the corresponding item.

*2: Sterilize the biopsy adaptor before and after use.

Sterilization

- * Note that local regulations may require that the biopsy adaptor, water bag, and coupler 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	Ethylene oxide gas ^{*3}
Trade name	Ethylene oxide gas
Manufacturer	Any manufacturer
Country of origin	Any
Concentration (Dilution ratio)	10%
Time	Exposure time: 7 hours Aeration time: 12 hours
Temperature	50°C (122°F)
Humidity	50%
Pressure	980 hPa [gauge]

Water bag/ coupler	Model name ^{*1}		OK
		UAWB-021A UAWB-022A	
Biopsy adaptor ^{*2}	UAGV-023A		OK
	UAGL-001AHA UAGL-002AHA UAGL004A UAGL-004AHA	UAGV-024A UAGV-027A UAGV-028A UAGV-029A	OK
	UAGV020A	UAGV-030A UAGV-034A	
	UAGV-035A UAGV-036A		-
	UAGL-015A	UAGV-031A UAGV-032A UAGV-033A	OK
	Magnetic sensor securing adaptor	UAFS-001A UAFS-003A UAFS-005A UAFS-007A UAFS-009A UIFR-A500	UAFS-002A UAFS-004A UAFS-006A UAFS-008A UAFS-010A

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

- *1: Note that some of the listed models may not be available in some regions. For the transducers that support each item, refer to the operation manual supplied with the corresponding item.

- *2: Sterilize the biopsy adaptor before and after use.

Steam	Hydrogen peroxide plasma ^{*4}
High-pressure steam sterilization	STERRAD [®] 50/100S/200/NX
	J&J
Any	Any
	Use STERRAD system cassettes specifically designed for the sterilizer.
18 min.	Select [SHORT Cycle] for STERRAD 100S/200 ^{*5} and [STANDARD Cycle] for STERRAD NX.
134°C (273.2°F)	There are no sterilization related parameters (temperature, humidity, pressure, or time) to be set by the operator.
-	-
OK	OK ^{*6}
OK	OK
OK	OK
OK	OK
-	OK

*3: After sterilization, thoroughly degas the sterilized item to remove all gas residues.

*4: The screw on the biopsy adaptor may become tight after sterilization. This does not indicate that the biopsy adaptor has been damaged.

*5: For STERRAD 100S/200 for the USA, no Cycle option is provided.

*6: Use a "booster" for the lumen of the biopsy adaptor for STERRAD 50/100S/200.

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



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