

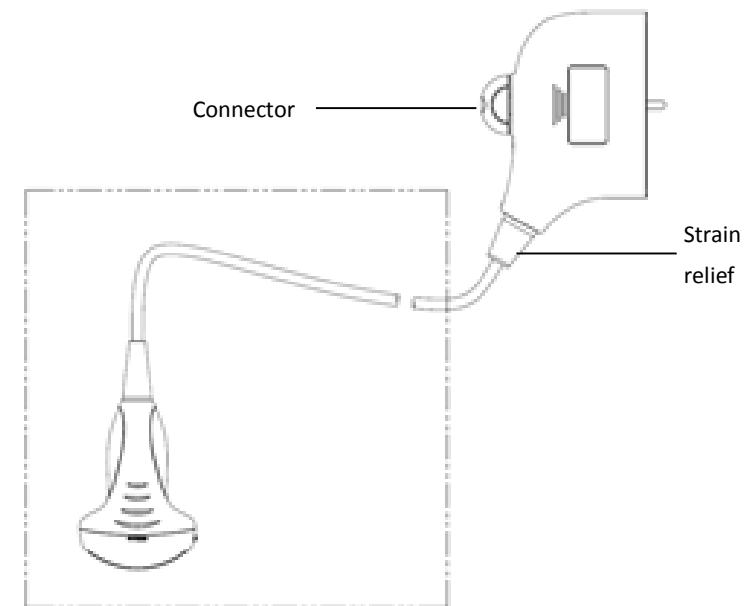
## Probe Cleaning and Disinfection Guide

**Note before use:**

1. Review the illustration (see Figure 1) carefully to perform disinfection. Do not allow liquid to enter the connector end as this may cause electrical shock or malfunction.

**Probe cleaning and Disinfection steps:**

1. Wear a pair of medical gloves to prevent infection.
2. Clean the probe:
  - a) Wipe away the ultrasound gel or other visible dirt on the surface of the probe by using a damp disposable lint-free soft cloth or tissue.
  - b) Choose an appropriate cleaning agent including cleaning wipes and sprays, mild detergents, enzymatic cleaners and specially designed enzymatic sponges.
  - c) Follow the cleaning agent manufacturer's instructions for use. Clean all surfaces of the probe until the probe is visibly clean. When necessary, clean the seams or biopsy guide features by using disposable cotton swabs.
  - d) Rinse the probe thoroughly by using a large amount of distilled or softened water to remove any residual dirt and cleaning solvent.
3. Dry the probe by wiping with a piece of disposable lint-free soft cloth or tissue. Do not use a heat source to dry the probe.
4. Disinfect the probe:
  - a) Disinfect the probe by using an appropriate disinfectant (see table 1). Follow the disinfection agent manufacturer's instructions for use.
  - b) Rinse the probe thoroughly by using a large amount of distilled or softened water at room temperature.
5. Dry the probe by wiping with a piece of disposable lint-free soft cloth. Do not use a heat source to dry the probe.



**Figure 1 Probe Illustration**

**Table 1 Compatible Disinfectants**

EPA Registration NO.	Active Ingredient/s	Product Name	Company	Contact time (time surface should remain wet)
46781-12	Quaternary ammonium; Ethanol; Isopropanol	CAVICIDE 1	METREX RESEARCH	3 minutes
46781-13	Quaternary ammonium; Ethanol; Isopropanol	CAVIWIPES 1	METREX RESEARCH	3 minutes
46781-6	Quaternary ammonium; Isopropanol	CAVICIDE	METREX RESEARCH	2 minutes
70627-56	Hydrogen Peroxide	OXIVIR Tb	Diversey, Inc.	1 minute
70627-58	Hydrogen Peroxide	OXY-TEAM™ DISINFECTANT CLEANER	Diversey, Inc.	5 minutes
70627-60	Hydrogen Peroxide	OXIVIR™ WIPES	Diversey, Inc.	1 minute
70627-62	Hydrogen Peroxide	PHATO 1:64 DISINFECTANT CLEANER	DIVERSEY, INC.	5 minutes
70627-74	Hydrogen Peroxide	OXIVIR 1	Diversey, Inc.	1 minute
70627-77	Hydrogen Peroxide	Oxivir 1 Wipes	Diversey, Inc.	1 minute
70627-78	Hydrogen Peroxide	SURETOUCH	DIVERSEY, INC.	5 minutes
74559-1	Hydrogen Peroxide	ACCEL TB	VIROX TECHNOLOGIES INC.	1 minute
74559-10	Hydrogen Peroxide	OXY-1 WIPES	VIROX TECHNOLOGIES INC.	30 seconds
74559-3	Hydrogen Peroxide	ACCEL TB WIPES	VIROX TECHNOLOGIES INC.	1 minute
74559-4	Hydrogen Peroxide	ACCEL (CONCENTRATE) DISINFECTANT CLEANER	VIROX TECHNOLOGIES INC.	5 minutes
74559-6	Hydrogen Peroxide	OXY-RES(CONCENTRATE)	VIROX TECHNOLOGIES INC.	5 minutes
74559-8	Hydrogen Peroxide	ACCEL 5 RTU	VIROX TECHNOLOGIES INC.	5 minutes

EPA Registration NO.	Active Ingredient/s	Product Name	Company	Contact time (time surface should remain wet)
74559-9	Hydrogen Peroxide	OXY-1 RTU	VIROX TECHNOLOGIES INC.	30 seconds
9480-10	Quaternary ammonium; Ethanol; Isopropanol	Sani-Prime Germicidal Spray	Professional Disposables International, Inc.	3 minutes
9480-12	Quaternary ammonium; Ethanol; Isopropanol	Sani-Cloth Prime Germicidal Disposable Wipe	Professional Disposables International, Inc.	3 minutes
9480-4	Quaternary ammonium	SANI-CLOTH GERMICIDAL WIPES	PROFESSIONAL DISPOSABLES INTERNATIONAL, INC.	2 minutes
9480-5	Quaternary ammonium	SANI-CLOTH	PROFESSIONAL DISPOSABLES INTERNATIONAL, INC.	3 minutes
9480-9	Quaternary ammonium	FREESTAR	PROFESSIONAL DISPOSABLES INTERNATIONAL, INC.	3 minutes

**Note: This table only lists the disinfectants that are closely related to the COVID-19. For more information, please refer to the disinfectant manual accompanying the probe.**

## Transducer Disinfectant Recommendation

Probe		[a]: Wipes													[b]: Sprays								[c]: Solutions												[d]: Devices		
		a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	a13	b1	b2	b3	b4	b5	b6	b7	b8	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10	c11	c12	d1	d2	
Convex	C5-1s/C11-3s	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√	√		√		√	√		√	√	√	√	√	√	√	√
	L12-4s/L14-6Ns	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√	√		√		√	√		√	√	√	√	√	√	√	
	L10-3s																		√	√					√										√		
	L16-4Hs																						√	√													
	L20-5s														√								√														
Phased	P10-4s	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√	√	√	√	√	√	√		
	P7-3s			√											√		√	√	√			√		√										√			
	SP5-1s	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√	√	√	√	√		√		√	√					√	√	√	√		
Pencil	CW2s/CW5s																					√	√			√	√										

[a]: Wipes	[b]: Sprays	[c]: Solutions	[d]: Devices
<b>a1:</b> CLEANISEPT® WIPES <b>a2:</b> mikrozyd® AF Wipes Jumbo <b>a3:</b> PROTEX™ DISINFECTANT Wipes <b>a4:</b> Sani-Cloth®Plus <b>a5:</b> SONO™ ULTRASOUND WIPES <b>a6:</b> Tristel Surface Wipes <b>a7:</b> Tristel Pre-Clean Wipes <b>a8:</b> Tristel Sporicidal Wipes <b>a9:</b> Tristel Rinse Wipes <b>a10:</b> Clinell Universal Wipes <b>a11:</b> mikrozyd® Sensitive Wipes <b>a12:</b> Wip'Anios premium <b>a13:</b> ultrasound probe cleaning wipes	<b>b1:</b> Oxivir™ <sup>MMC</sup> Tb <b>b2:</b> PI-SPRAY II <b>b3:</b> Surfa'safe <b>b4:</b> TRANSEPTIC <b>b5:</b> PROTEX™ DISINFECTANT SPRAY <b>b6:</b> Tristel Solo <b>b7:</b> Tristel Duo <b>b8:</b> IODOCLEAN	<b>c1:</b> CIDEX OPA <b>c2:</b> Cidex Activated Dialdehyde Solution <b>c3:</b> MetriZyme <b>c4:</b> Minncare® Cold Sterilant <b>c5:</b> Ster-Bac <b>c6:</b> Triacid-N <b>c7:</b> Revital-Ox™ Resert High Level Disinfectant <b>c8:</b> ggigasept® PAA concentrate <b>c9:</b> DESCOTON extra <b>c10:</b> ggigasept® FF(neu) <b>c11:</b> ANIOXYDE 1000 <b>c12:</b> SALVANIOS pH10	<b>d1:</b> TrophonSonex-HL (Used with Trophon/Trophon2) <b>d2:</b> Germitec Antigermix UV-C

**Transducer Disinfectant Recommendation**
**Active Ingredients of the Disinfectant**

Disinfectant	Active Ingredients
Tristel Surface Wipes/Tristel Trio Wipes System/Tristel Jet:	chlorine dioxide
Ster-Bac/PI-SPRAY II/ mikroqid® Sensitive Wipes/ Clinell Universal Wipes:	Quaternary Ammoniums
MetriZyme:	Proteinase subtilisin
Tristel Rinse Wipes:	deionized water
Cidex OPA:	0.55% Ortho-phthlaldehide
DESCOTON extra:	glutaraldehyde
Oxivir <sup>TM/MC</sup> Tb:	0.5% hydrogen peroxide
Tristel Solo:	polyhexamethylbiguanide
Tristel Pre-Clean Wipes:	enzymatic detergent
Sani-Cloth® Plus:	n-Alkyl dimethyl benzyl ammonium chloride n-Alkyl ethylbenzyl ammonium chloride
CaviWipes:	isopropanol, ethylene glycol monobutyl ether (2-butoxyethanol), diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride, water
CaviWipes 1:	isopropanol, ethanol, ethylene glycol monobutyl ether (2-butoxyethanol), didecyl-dime-thylammonium chloride, water
Dispatch Towels:	Sodium hydroxide, Sodium metasilicate, Sodium hypochlorite
Accel TB Wipes:	Hydrogen peroxide
Revital-OX Enzymatic Detergent:	Citric acid, Triethanolamine, Ethanolamine, Ethoxylated coconut oil alkyl amine, Subtilisins (proteolytic enzymes), Glycerine
Liquinox:	enzymatic detergent
SONO <sup>TM</sup> ULTRASOUND WIPES:	octyl decyl dimethyl ammonium chloride; dioctyl dimethyl ammonium chloride; didecyl dimethyl ammonium chloride; dimethyl benzyl ammonium chloride
Minnicare® Cold Sterilant:	22% Hydrogen Peroxide, 4.5% Peroxyacetic Acid
mikroqid® AF Wipes Jumbo:	25% ethanol; 35% propan-1-ol
CLEANISEPT® WIPES:	0.25g didecyl-dimethylammoniumchloride 0.5g quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl-, chlorides
Wip'Anios premium:	didecyl-dimethylammonium chloride 1.4mg/g, polyhexamethylene biguanide hydrochloride 0.96mg/g
Cidex Activated Dialdehyde Solution:	glutaraldehyde
TRANSEPTIC:	isopropyl alcohol, chlorhexidine gluconate
Protex Spray:	Quaternary ammonium compounds di-C8-10-alkyldimethyl, chlorides Water
gigasept® FF(neu):	0.11g succindialdehyde; 0.3g dimethoxytetrahydrofuran; < 5% anionic surfactant; non-ionic surfactants; anti-corrosion compounds; fragrance
gigasept® PAA concentrate:	peracetic acid (5%); hydrogen peroxide: acetic acid; potassium hydroxide: corrosion inhibitor

Disinfectant	Active Ingredients
Protex <sup>TM</sup> Disinfectant Spray/ Protex <sup>TM</sup> Disinfectant Wipes:	octyl decyl dimethyl ammonium chloride; dioctyl dimethyl ammonium chloride; didecyl dimethyl ammonium chloride; dimethyl benzyl ammonium chloride
Triacid-N:	N-Dodecylpropan-1,3-diamin; propan-2-ol; isotridecanol, ethoxylated; non-ionic detergent
Surfa'safe:	didecyl-dimethylammonium chloride 1.4mg/g, polyhexamethylene biguanide hydrochloride 0.96mg/g
Revital-Ox <sup>TM</sup> Resert High Level Disinfectant/TrophonSonex-HL:	hydrogen peroxide
ANIOXYDE 1000:	3% Hydrogen Peroxide
Sani-Cloth AF3:	Quaternary ammonium chlorides.
Metricide OPA Plus:	Quaternary Ammoniums
Protex Ultra Wipes:	Quaternary Ammoniums
MetriZyme Liquid and MetriSponge:	Proteinase subtilisin
Prolystica 2X Enzymatic:	Alcohols, C12-14-secondary, ethoxylated, Subtilisins (proteolytic enzymes), Glycerine
Endozime and Endozime Sponge:	Subtilisins (proteolytic enzymes)
Metricide:	Glutaraldehyde
Metricide 14:	Glutaraldehyde
Metricide 28:	Glutaraldehyde
CaviCide:	isopropanol, ethanol, ethylene glycol monobutyl ether (2-butoxyethanol), diisobutylphe-noxyethoxyethyl dimethyl benzyl ammonium chloride, water
Gigasept AF:	didecyl-dimethylammonium chloride, glycine, aminoalkyl derivs tridecylpolyethylenglycoether.
Rely+On PeraSafe:	disodium carbonate, citric acid
Cidex Plus:	glutaraldehyde
Sonogel:	carbomer, polyacrylat
SteriHyde:	Glutaraldehyde
Osvan:	Ammonia benzalkonium
Neojodin:	povidone-iodine
Milton:	sodium hypochlorite
Hibitane:	hlorhexidine

**NOTE:**

- For use of each disinfectant, please refer to the manufacturer's instructions.
- Please select the proper disinfectant for the probe of the Diagnostic Ultrasound System. The content of this document shall prevail in case of other new editions.
- Refer to local regulations for the use of each disinfectant.

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