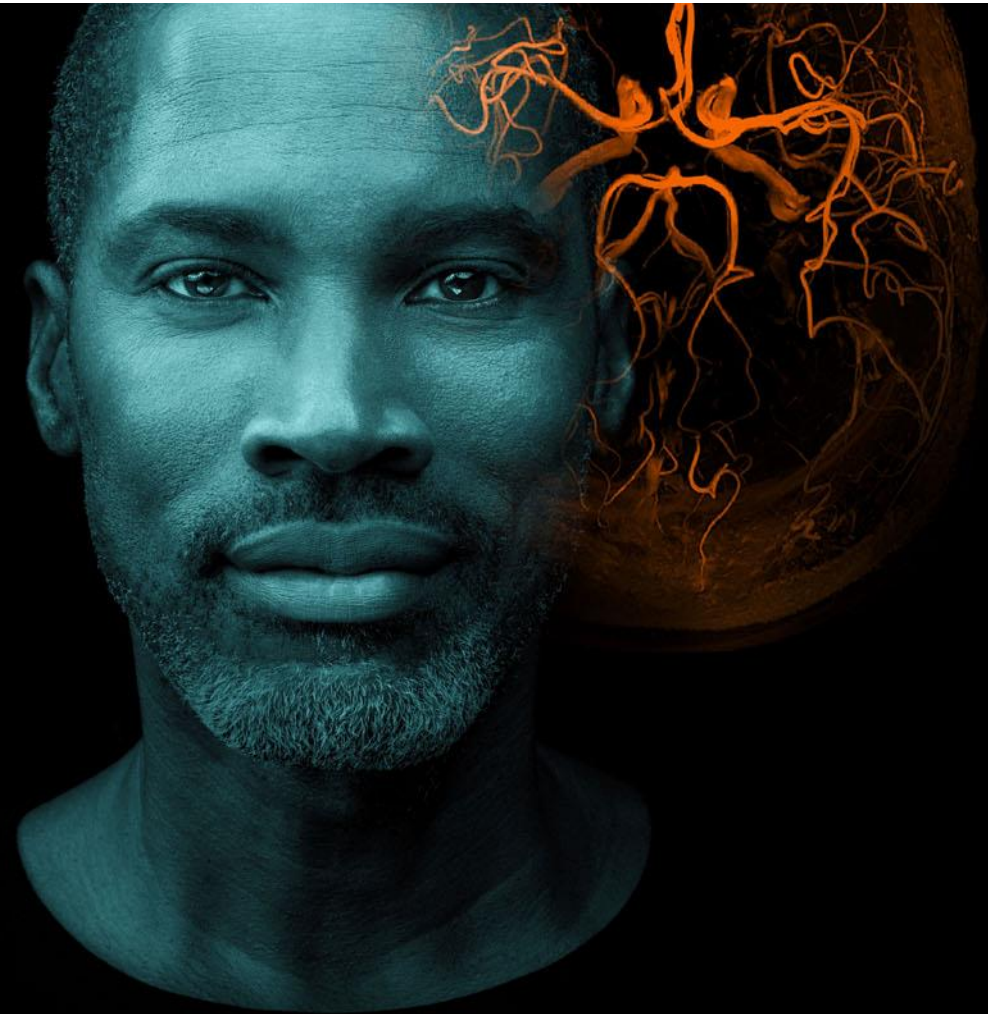
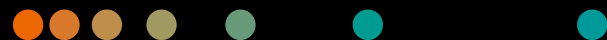


Preventing contaminated medical devices in the context of COVID-19

Recommendations

X-ray Products



X-ray Products Overview

According to the WHO COVID-19 information center:

“People can catch COVID-19 from others who have the virus. The disease can spread from person to person through small droplets from the nose or mouth which are spread when a person with COVID-19 coughs or exhales. These droplets land on objects and surfaces around the person. Other people then catch COVID-19 by touching these objects or surfaces, then touching their eyes, nose or mouth. People can also catch COVID-19 if they breathe in droplets from a person with COVID-19 who coughs out or exhales droplets.” ¹

In this context, patients infected with COVID-19 which undergo exams in medical devices might transmit the disease via contamination of the systems surfaces and therefore **disinfecting the systems after each patient is recommended.**

¹ See Q&A on coronaviruses (COVID-19), <https://www.who.int/news-room/q-a-detail/q-a-coronaviruses>, 26th March 2020

X-ray Products Overview

Recommendations

- To date, the recommendations of the existing risk assessment apply. Generally used disinfectants have to be effective against the COVID-19 virus. Check list of disinfectants that meet EPA's criteria for use against SARS-CoV-2 and its label for specific instructions for inactivation and follow label instructions for product use (for countries that do not follow EPA recommendation, local environmental protection agencies recommendation apply). ^{1,2}
- All parts of objects that could potentially come into contact with patients and medical staff have to be disinfected.
- All local hygiene instructions (hospital) must be followed. These should meet at least our recommendations.
- Please follow the proper cleaning instructions provided in the operator's manual.

Caution

Please note that some cleaning agents can cause damage to system components and accessories, a specific list of recommendation for different modalities can be found in the instruction for use of the medical device.

Do not pour cleaning fluid onto surfaces and do not spray fluids - always use a damp cloth for cleaning.

Please contact your local Siemens Healthineers organization for further details.

¹ See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

² See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

X-ray Products Portfolio - Overview

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Recommendations

Radiography & Mobile Generators

Safety Instructions for Radiography & Mobile Generator Products

CAUTION

Use of harsh cleaning agents, liquids, or sprays.

Risk of electrical hazard or damage to the system

- **Use only substances for cleaning and disinfection, which are recommended.**
- Do not let cleaning liquids seep into the openings of the system (for example air openings, gaps between covers).
- Observe the cleaning and disinfection instructions.

CAUTION

Inadequate cleaning and disinfection

Risk of infection

- Clean and disinfect all contaminated surfaces and all parts which may come (or have come) in contact with patient after each examination.
- For cleaning, use water or a lukewarm diluted household cleaning agent solution.
- **For disinfection, use common surface disinfectants (such as quaternary compounds and/or guanidine derivatives)**
- For disinfection of the wireless detector, use hospital grade, EPA (Environmental Protection) registered low to intermediate-level product for hard, non-porous surface and equipment, such as Sani-Cloth® PLUS
- Protect the portable detector with a single-use plastic bag (for the system which contains the detector)

X-ray Products

Radiography & Mobile Generators

	antistatic cleaner	household cleaning agent, pH-neutral	rubbing alcohol	alcohol	aldehyde	quaternary compound	guanidine derivative	pyridine derivative	benzene	alkylamine	phenol derivative	organic acid	peroxid	AHP (accelerated hydrogen peroxid)	chlorine derivative
Radiography															
Multitom Rax		X			X		X	X		X		X	X		
Ysio Max		X			X		X					X	X		
Multix Fusion Max		X				X	X								
MULTIX Impact		X			X		X					X	X		
Mobile Generators															
MOBILETT Elara Max															
Main System		X				X	X	X		X		X	X		X
Detector						X	X						X		X
Mobilett Mira Max															
Main System		X					X			X		X	X		
Detector						X	X						X		

Disinfecting

1. Disinfect all the parts that can, directly or indirectly, come or have come into direct contact with the patient.
2. In addition, observe the hygiene plan of your hospital.
3. Disinfect the system by wiping only.

Radiography

Multitom Rax

Read carefully the according chapter in the operator manual of the Multitom Rax
Operator manual - **chapter 2.3.8 Cleaning and disinfection¹**

The following active ingredient classes can be used:

- Guanidine derivatives
- Peroxide compounds
- Organic acids

The following products should not be used:

- Virex TB
- Terralin
- All alcohol-based products
- All phenol-based products
- All chlorine-releasing products

.....
The safety data sheets of the manufacturer provide detailed information on the composition of the disinfectants.
.....



Example products (permitted)
US: Listed on EPA²:
Peridox RTU / Contec Peroxide
Germany: Listed on RKI³:
Dismozon / Bode Chemie Peroxide
Incidin Plus / Ecolab Glucoprotamin

¹ Multitom Rax Operator Manual – VF10 or higher // XPB8-010G.620.05.01.02
² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020
³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Radiography

Ysio Max

Read carefully the according chapter in the operator manual of the Ysio Max
Operator manual - **chapter 2.3.7 Cleaning and disinfection¹**

The following active ingredient classes can be used:

- Guanidine derivatives
- Peroxide compounds
- Organic acids

The following products should not be used:

- Virex TB
- Terralin
- All alcohol-based products
- All phenol-based products
- All chlorine-releasing products

.....
The safety data sheets of the manufacturer provide detailed
information on the composition of the disinfectants.
.....



Example products (permitted)
US: Listed on EPA²:
Peridox RTU / Contec Peroxide
Germany: Listed on RKI³:
Dismozon / Bode Chemie Peroxide
Incidin Plus / Ecolab Glucoprotamin

¹ Ysio Max Operator Manual – VF10 and higher // XPB7-030G.620.04.02.02
² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020
³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Radiography

Multix Fusion Max

Read carefully the according chapter in the operator manual of the Multix Fusion Max
Operator manual - **chapter 6.2.1 Cleaning and disinfection¹**

The following active ingredient classes can be used:

- Guanidine derivatives
- Quaternary compounds

.....
The safety data sheets of the manufacturer provide detailed
information on the composition of the disinfectants.
.....



Example products (permitted)

US: Listed on EPA²:

Sani-Cloth AF3 / PDI
Quaternary compound

Germany: Listed on RKI³:

**No quaternary based products
listed at RKI**

Alternative:
Cleanisept / Dr. Schuhmacher
Quaternary compound

¹ Multix Fusion Max Operator Manual // XPB2-160G.620.02.01.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Radiography

MULTIX Impact

Read carefully the according chapter in the operator manual of the MULTIX Impact
Operator manual - **chapter 2.3.8 Cleaning and disinfection¹**

The following active ingredient classes can be used:

- Guanidine derivatives
- Peroxide compounds
- Organic acids

The following products should not be used:

- Virex TB
- Terralin
- All alcohol-based products
- All phenol-based products
- All chlorine-releasing products

.....
The safety data sheets of the manufacturer provide detailed
information on the composition of the disinfectants.
.....



Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec
Peroxide

Germany: Listed on RKI³:

Dismozon / Bode Chemie
Peroxide

Incidin Plus / Ecolab
Glucoprotamin

¹ Multix Impact Operator Manual VA10 // XPB1-200G.620.01.02.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Mobile Generators

MOBILETT Elara Max

Read carefully the according chapter in the operator manual of the MOBILETT Elara Max
Operator manual - **chapter 6.2 Cleaning and disinfection¹**

Disinfecting the detector

For surface disinfecting of the detector, we recommend using liquid solutions of a commercially available surfactant disinfectant based on the following ingredient classes:

- Guanidine derivatives
- Peroxide compounds
- Quaternary compounds
- Chlorine derivatives

Disinfectants based on alcohol, petroleum ether or phenolic derivatives can lead to material damage and are not recommended.

Disinfecting the base unit and monitor screen

For surface disinfecting of the detector, we recommend using liquid solutions of a commercially available surfactant disinfectant based on the following ingredient classes:

- Alkylamine
- Guanidine derivatives
- Peroxide compounds
- Pyridine derivatives
- Quaternary compounds
- Chlorine derivatives
- Organic acids (not suited for bumper in front of the foot cover)

Disinfectants based on alcohol, petroleum ether or phenolic derivatives can lead to material damage and are not recommended.



Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec
Peroxide

Germany: Listed on RKI³:

Dismozon / Bode Chemie
Peroxide

Incidin Plus / Ecolab
Glucoprotamin

¹ MOBILETT Elara Max Operator Manual VA10 // XPR8-280G.620.01.01.02'

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Mobile Generators

Mobilett Mira Max

Read carefully the according chapter in the operator manual of the Mobilett Mira Max
Operator manual - **chapter 6.2 Cleaning and disinfection¹**

Disinfecting the detector

For surface disinfecting of the detector, we recommend using liquid solutions of a commercially available surfactant disinfectant based on the following ingredient classes:

- Guanidine derivatives (such as Fluorescein N)
- Quaternary compounds (e.g. biguanide surface)
- Peroxide compounds (e.g. Apesin AP 100, Dismozon plus, Sanosil)

The use of agents based on chlorine derivatives and alcohol can lead to material damage and are not recommended.

Disinfecting the base unit and monitor screen

For surface disinfecting of the detector, we recommend using liquid solutions of a commercially available surfactant disinfectant based on the following ingredient classes:

- Alkylamine (such as Apesin Combi DR, Incidin Plus, Desonal)
- Guanidine derivatives (such as Floracin N)
- Peroxide compounds (such as Apesin AP 100, Dismozon plus, Sanosil)
- Organic acids (such as Apesin SDR san, Bio-Antibact med, Oxidice S-Des)

Disinfectants based on alcohol, petroleum ether or phenolic derivatives can lead to material damage and are not recommended.



Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec Peroxide

Germany: Listed on RKI³:

Dismozon / Bode Chemie Peroxide

Incidin Plus / Ecolab Glucoprotamin

¹ Mobilett Mira Max Operator Manual // XPR8-270G.620.03.01.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Recommendations

Fluoroscopy & Urology

Safety Instructions for Fluoroscopy & Urology Products

CAUTION

Use of harsh cleaning agents, liquids, or sprays.

Risk of electrical hazard or damage to the system

- **Use only substances for cleaning and disinfection, which are recommended**
- Do not let cleaning liquids seep into the openings of the system (for example air openings, gaps between covers).
- Observe the cleaning and disinfection instructions.

CAUTION

Inadequate cleaning and disinfection

Risk of infection

- Clean and disinfect all contaminated surfaces and all parts which may come (or have come) in contact with patient after each examination.
- **Use the recommended cleaning agents and disinfectants**
- Protect the portable detector with a single-use plastic bag

X-ray Products

Fluoroscopy & Urology

	antistatic cleaner	household cleaning agent, pH-neutral	rubbing alcohol	alcohol	aldehyde	quaternary compound	guanidine derivative	pyridine derivative	benzene	alkylamine	phenol derivative	organic acid	peroxid	AHP (accelerated hydrogen peroxid)	chlorine derivative
Fluoroscopy															
Luminos Agile Max		X			X		X					X	X		
Luminos dRF Max		X			X		X					X	X		
Luminos Fusion FD		X				X	X								
Urology															
Urooskop Omnia Max		X			X		X	X		X		X	X		

-

Disinfecting

.....
- Disinfect all the parts that can, directly or indirectly, come or have come into direct contact with the patient.
 - In addition, observe the hygiene plan of your hospital.
 - Disinfect the system by wiping only.

Fluoroscopy

Luminos Agile Max

Read carefully the according chapter in the operator manual of the Luminos Agile Max
Operator manual - **chapter 2.3.8 Cleaning and disinfection¹**

The following active ingredient classes can be used:

- Guanidine derivatives
- Peroxide compounds
- Organic acids

The following products should not be used:

- Virex TB
- Terralin
- All alcohol-based products
- All phenol-based products
- All chlorine-releasing products

.....
The safety data sheets of the manufacturer provide detailed
information on the composition of the disinfectants.
.....



Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec
Peroxide

Germany: Listed on RKI³:

Dismozon / Bode Chemie
Peroxide

Incidin Plus / Ecolab
Glucoprotamin

¹ Luminos Agile Max Operator Manual – VF10 and higher // XPD1-325G.620.02.02.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Fluoroscopy

Luminos dRF Max

Read carefully the according chapter in the operator manual of the Luminos dRF Max
Operator manual - **chapter 2.3.8 Cleaning and disinfection¹**

The following active ingredient classes can be used:

- Guanidine derivatives
- Peroxide compounds
- Organic acids

The following products should not be used:

- Virex TB
- Terralin
- All alcohol-based products
- All phenol-based products
- All chlorine-releasing products

.....
The safety data sheets of the manufacturer provide detailed
information on the composition of the disinfectants.
.....



Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec
Peroxide

Germany: Listed on RKI³:

Dismozon / Bode Chemie
Peroxide

Incidin Plus / Ecolab
Glucoprotamin

¹ Luminos dRF Max Operator Manual – VF10 and higher // XPD3-520G.620.03.01.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Fluoroscopy

Luminos Fusion FD

Read carefully the according chapter in the operator manual of the Luminos Fusion FD
Operator manual - **chapter 6 Cleaning and disinfection¹**

The following active ingredient classes can be used:

- Guanidine derivatives
- Quaternary compounds

.....
The safety data sheets of the manufacturer provide detailed
information on the composition of the disinfectants.
.....



Example products (permitted)

US: Listed on EPA²:

Sani-Cloth AF3 / PDI
Quaternary compound

Germany: Listed on RKI³:

**No quaternary based products
listed at RKI**

Alternative:
Cleanisept / Dr. Schuhmacher
Quaternary compound

¹ Luminos Fusion Operator Manual – VF10 and higher // XPD3-380.620.07.03.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Urology

Uroskop Omnia Max

Read carefully the according chapter in the operator manual of the Uroskop Omnia Max
Operator manual - **chapter 6.2 Cleaning, disinfection, sterilization**¹

The following active ingredient classes can be used:

- Aldehydes
- Peroxide compounds
- Alkylamines
- Pyridine derivatives
- Guanidine derivatives
- Organic acids

The following products should not be used:

- Quaternary compounds
- Chlorine derivatives
- All alcohol-based products
- Benzene

.....
The safety data sheets of the manufacturer provide detailed information on the composition of the disinfectants.
.....



Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec
Peroxide

Germany: Listed on RKI³:

Dismozon / Bode Chemie
Peroxide

Incidin Plus / Ecolab
Glucoprotamin

¹ Luminos dRF Max Operator Manual – VF10 and higher // XPD3-520G.620.03.01.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Recommendations

Women's Health

Safety Instructions for Mammography Products

CAUTION

Using incorrect cleaning agents can accelerate the aging process of the plastics or leave traces behind.

Equipment damage due to unsuitable cleaning agents

- Observe the specifications of the manufacturer of the cleaning/ disinfecting agent.

CAUTION

Use of unsuitable cleaning agents.

Damage of equipment due to penetration of cleaning agent into the equipment or injury due to ignition!

- Wipe off the system with a damp, non-fluffing, non-woven or cotton cloth (100%)
- Moisten the cloth only with water or a lukewarm, diluted, aqueous solution using a household cleanser without abrasives.
- **Use biocompatible and non-inflammable cleaning and disinfection agents (see list of recommended agents).**

X-ray Products

Mammography

	antistatic cleaner	household cleaning agent, pH-neutral	rubbing alcohol	alcohol	aldehyde	quaternary compound	guanidine derivative	pyridine derivative	benzene	alkylamine	phenol derivative	organic acid	peroxid	AHP (accelerated hydrogen peroxid)	chlorine derivative
Mammography															
MAMMOMAT Revelation															
Compression troughs		X				X									
Compression holder		X				X									
Detector cover, Mag table		X		X		X							X		
Moodlight	X														
MAMMOMAT Inspiration															
Compression troughs		X				X									
Compression holder		X				X									
Detector cover, Mag table		X		X		X							X		
Moodlight	X														
MAMMOMAT Fusion															
Compression troughs		X				X									
Compression holder		X				X									
Detector cover, Mag table		X		X		X							X		
Moodlight	X														

Disinfecting

1. Disinfect all the parts that can, directly or indirectly, come or have come into direct contact with the patient.
2. In addition, observe the hygiene plan of your hospital.
3. Disinfect the system by wiping only.

Mammography

MAMMOMAT Revelation



Read carefully the according chapter in the operator manual of the MAMMOMAT Revelation
Operator manual - **chapter 2.3.2 Cleaning, disinfection¹**

Compression holder

not permitted	chlorine-containing products organic acids containing products
permitted	disinfectants with quaternary ammonium compounds
we recommend	disinfectants with quaternary ammonium compounds

Standard needle holder / Special needle holder for dedicated biopsy systems

not permitted	alcohol-based products products containing hydrogen peroxide
---------------	--

Compression troughs (paddles)

not permitted	alcohol-based products petroleum-based products products containing hydrogen peroxide
permitted	disinfectants with quaternary ammonium compounds such as "acryl-des" (by Schülke)
we recommend	disinfectants without alcohol and hydrogen peroxide for all compression troughs disinfectants with quaternary ammonium compounds

Magnification table, covers such as detector cover

no restrictions on disinfectants we recommend	30% H ₂ O ₂ (hydrogen peroxide) disinfectants with alcohol disinfectants with quaternary ammonium compounds
---	--

Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec
Peroxide

Sani-Cloth AF3 / PDI
Quaternary compound

Germany: Listed on RKI³:

Dismozon / Bode Chemie
Peroxide

Incidin Plus / Ecolab
Glucoprotamin

No quaternary based products listed at RKI

Alternative:
Cleanisept / Dr. Schuhmacher
Quaternary compound

¹ MAMMOMAT Revelation Operator Manual – VC10 or higher // XPW7-340G.620.01.02.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Mammography

MAMMOMAT Inspiration



Read carefully the according chapter in the operator manual of the MAMMOMAT Inspiration
Operator manual - **chapter 2.3.2 Cleaning, disinfection¹**

Compression holder

not permitted	chlorine-containing products organic acids containing products
permitted	disinfectants with quaternary ammonium compounds
we recommend	disinfectants with quaternary ammonium compounds

Standard needle holder / Special needle holder for dedicated biopsy systems

not permitted	alcohol-based products products containing hydrogen peroxide
---------------	--

Compression troughs (paddles)

not permitted	alcohol-based products petroleum-based products products containing hydrogen peroxide
permitted	disinfectants with quaternary ammonium compounds such as "acryl-des" (by Schülke)
we recommend	disinfectants without alcohol and hydrogen peroxide for all compression troughs disinfectants with quaternary ammonium compounds

Magnification table, covers such as detector cover

no restrictions on disinfectants we recommend	30% H ₂ O ₂ (hydrogen peroxide) disinfectants with alcohol disinfectants with quaternary ammonium compounds
---	--

Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec
Peroxide

Sani-Cloth AF3 / PDI
Quaternary compound

Germany: Listed on RKI³:

Dismozon / Bode Chemie
Peroxide

Incidin Plus / Ecolab
Glucoprotamin

No quaternary based products listed at RKI

Alternative:
Cleanisept / Dr. Schuhmacher
Quaternary compound

¹ MAMMOMAT Inspiration Operator Manual – VB60 or higher // XPW7-330G.620.60.01.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

Mammography

MAMMOMAT Fusion



Read carefully the according chapter in the operator manual of the MAMMOMAT Fusion
Operator manual - **chapter 2.3.2 Cleaning, disinfection¹**

Compression holder

not permitted	chlorine-containing products organic acids containing products
permitted	disinfectants with quaternary ammonium compounds
we recommend	disinfectants with quaternary ammonium compounds

Standard needle holder / Special needle holder for dedicated biopsy systems

not permitted	alcohol-based products products containing hydrogen peroxide
---------------	--

Compression troughs (paddles)

not permitted	alcohol-based products petroleum-based products products containing hydrogen peroxide
permitted	disinfectants with quaternary ammonium compounds such as "acryl-des" (by Schülke)
we recommend	disinfectants without alcohol and hydrogen peroxide for all compression troughs disinfectants with quaternary ammonium compounds

Magnification table, covers such as detector cover

no restrictions on disinfectants we recommend	30% H ₂ O ₂ (hydrogen peroxide) disinfectants with alcohol disinfectants with quaternary ammonium compounds
---	--

Example products (permitted)

US: Listed on EPA²:

Peridox RTU / Contec
Peroxide

Sani-Cloth AF3 / PDI
Quaternary compound

Germany: Listed on RKI³:

Dismozon / Bode Chemie
Peroxide

Incidin Plus / Ecolab
Glucoprotamin

No quaternary based products listed at RKI

Alternative:
Cleanisept / Dr. Schuhmacher
Quaternary compound

¹ MAMMOMAT Fusion Operator Manual – VC10 or higher // XPW7-388G.620.60.01.02

² See EPA / US, <https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2>, 26th March 2020

³ See RKI / Germany, https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Hygiene.html, 26th March 2020

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