Miltenyi Biotec

MACS® MiniSampler S

User manual



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MACS® MiniSampler S

User manual

Original instructions

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Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany
Phone +49 2204 8306-0
Fax +49 2204 85197
macsde@miltenyi.com
www.miltenyibiotec.com

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1

Important safety information

Read the user manual first

⚠ WARNING

Before using the MACS MiniSampler S, read the chapter **Important safety information** and all other information contained in this user manual as well as in the autoMACS NEO Separator user manual, including any safety and operating instructions. Pay special attention to all warnings displayed on the instrument. Failure to read and follow these guidelines could lead to improper or incorrect usage and result in damage to the instrument. Improper usage could also cause severe personal injury, death, unpredictable results, instrument malfunction, and premature wear to components shortening the lifetime of the instrument. Such actions may void your warranty. Keep the user manual and any other safety and operating instructions provided with the instrument in a safe place accessible to all users for future reference.

If you have a serious concern regarding the safe use of your instrument, contact your authorized Miltenyi Biotec service provider or call Miltenyi Biotec Technical Support.

General safety instructions



THIS CHAPTER DESCRIBES POTENTIALLY HAZARDOUS SITUATIONS ASSOCIATED WITH THIS INSTRUMENT AND PROVIDES IMPORTANT SAFETY INFORMATION TO MINIMIZE THE RISKS AND PROTECT YOURSELF AND OTHERS.

This chapter provides important information for your personal safety and the correct use of the instrument. Read and observe all instructions carefully before proceeding with the installation and use of the instrument. Observe general safety practices in addition to this user manual.

- Use this instrument only as indicated in this user manual to avoid personal injury and property damage.
- Also read the safety instructions in the autoMACS NEO Separator instrument user manual. This accessory shall be used only with the autoMACS NEO Separator.
- Keep this user manual in a place that is always accessible to all users.
- Follow local working area safety instructions and laboratory policies and standards for health, safety, and prevention of accidents.
- Check the instrument before each use for visible damage.

Hazard levels

Signal words are used to warn against hazardous situations and property damages. The following signal words are used in this user manual.

⚠ WARNING or WARNING! indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION or CAUTION! indicates a hazardous situation that, if not avoided, could result in minor or moderate injury. It is also used to warn against unsafe practices.

Symbols



SAFETY WARNING: THE DOCUMENTATION MUST BE CONSULTED IN ALL CASES WHERE THIS SAFETY SYMBOL IS USED ON THE INSTRUMENT



MOVING PARTS



READ THE USER MANUAL BEFORE USING THE INSTRUMENT



WEEE (WASTE OF ELECTRICAL AND ELECTRONIC EQUIPMENT)

SN

SERIAL NUMBER

TYP

TYPE NUMBER

REF

ORDER NUMBER



MANUFACTURER



DATE OF MANUFACTURE

CE

EUROPEAN CONFORMITY APPROVAL



NRTL CERTIFICATION MARK: PRODUCT MEETS CONSENSUS-BASED STANDARDS OF SAFETY, REQUIRED BY THE OCCUPATIONAL SAFETY/HEALTH ADMINISTRATION (OSHA), DETERMINED BY THE NATIONALLY RECOGNIZED TESTING LABORATORIES (NRTL) TÜV SÜD

UK CONFORMITY ASSESSED MARK

FCC CERTIFICATION MARK

Safety labels

Notice the hazard points and safety symbols of the instrument.

- Keep safety labels and safety markings clean and legible.
- Inspect the safety labels and safety markings regularly and replace them if they are not legible or identifiable from a safe viewing distance.
- Contact Miltenyi Biotec for replacement labels.

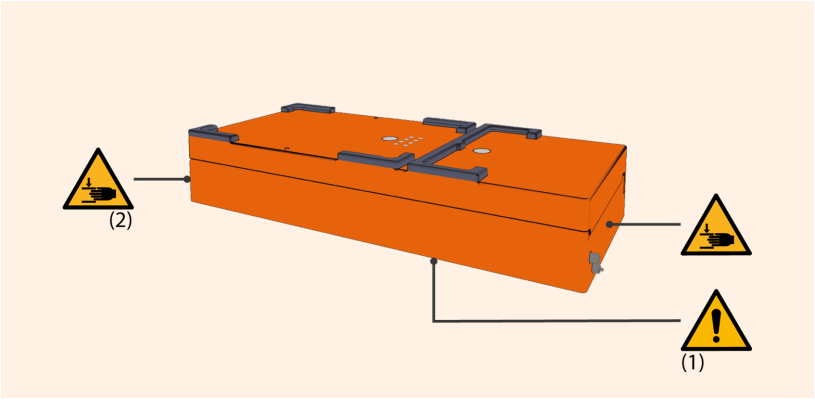


Figure 1: Safety symbols on the instrument

1 On type plate

2 On both narrow sides

Electricity and fire hazards

⚠ WARNING

Electric devices bear the risk of electric shock, short circuits, overheating, fire, and explosion. This may lead to burns, severe personal injury, or death.

Protective housing

The housing of the instrument reduces the risk of an electric shock and short circuits. A short circuit can be caused by disassembled parts or objects that have been dropped into the instrument. Emitting sparks caused by a short circuit might ignite combustible vapors or material. The protective housing prevents the spread of fire.

- Do not remove or penetrate any cover of the housing.
- Only Miltenyi Biotec service personnel is allowed to remove any cover of the instrument.
- Do not use the instrument if it has been dropped or is damaged.

Liquids inside the instrument

Liquids inside the instrument can cause short circuits.

- Unplug the instrument before cleaning it.
- Use only small amounts of cleaning agents on a soft cloth to wipe the instrument. Do not spray or pour liquid cleaning agents onto or into the instrument.
- Clean up spilled liquids immediately.

Biological hazards

⚠ WARNING

Contamination or infection may lead to severe personal injury or death, depending on the used material.

All biological material must be considered potentially infectious.

- Wear personal protective equipment (such as gloves, safety glasses, etc.) as indicated in the documentation for the particular substance.
- Decontaminate the instrument after processing hazardous or potentially infectious material.

Mechanical hazards

⚠ CAUTION

Risk of crushing or cutting due to moving parts.

The carriage of the MACS MiniSampler S moves.

- Keep away from the MACS MiniSampler S while the instrument is in operation.
- Do not load or unload samples or racks while the instrument is in motion.

Environmental hazards

⚠ CAUTION

Risk of crushing foot in case of insufficient ambient lighting.

- Provide for sufficient light when lifting and carrying the instrument.

Servicing and transportation

Servicing

Improper servicing or repair of the instrument or use of unauthorized parts can cause malfunction of or damage to the instrument. This can cause hazards to users. Unless otherwise specifically noted in this user manual or other Miltenyi Biotec documentation, do not service the instrument yourself. Servicing and repair must be performed by Miltenyi Biotec certified and qualified service personnel. If the instrument needs servicing, decontaminate the instrument to remove any hazardous material. If you have questions regarding proper decontamination or shipment, contact Miltenyi Biotec Technical Support for assistance. Only use accessories and upgrades recommended by Miltenyi Biotec. Inquire with your local Miltenyi Biotec representative about Miltenyi Biotec's extensive instrument service and service contracts, or refer to **www.miltenyibiotec.com/support**.

Transportation

The instrument should be transported with care in packaging specified by Miltenyi Biotec. Internal damage can occur if the instrument is subjected to excessive vibration or if it is dropped. If the instrument needs to be shipped back to the manufacturer for service, contact Miltenyi Biotec for instructions and packaging materials.

Disposal



WASTE OF ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) CUSTOMER INFORMATION

Dispose of your end-of-life Miltenyi Biotec products in accordance with the applicable WEEE and hazardous waste disposal legislation, which may differ by country or region. Electrical equipment may contain hazardous substances that may have a serious detrimental effect on the environment and/or human health. All equipment must be specifically collected and treated by designated waste

facilities and by qualified WEEE compliance schemas. By ensuring that you dispose of your unwanted electrical and electronic equipment according to the applicable WEEE and hazardous waste disposal legislation, you are helping to preserve our natural resources and protect human health. Miltenyi Biotec is committed to protecting the environment. Miltenyi Biotec offers product end-of-life return programs in many countries, and partners with licensed WEEE compliance schemes throughout the world. Miltenyi Biotec takes back your end-of-life Miltenyi Biotec equipment for recycling free of charge. The terms and availability of this offer vary by geography because of differences in regulatory requirements. Note that, depending on the type and use of your equipment, additional requirements may apply. Before shipping the instrument back to the manufacturer for disposal, decontaminate the instrument to remove any hazardous material. For more information, or if you wish to dispose of your end-of-life Miltenyi Biotec equipment, contact your local Miltenyi Biotec representative or Miltenyi Biotec Technical Support.

2

Introduction

2.1 The MACS MiniSampler S

The MACS MiniSampler S is an accessory for the autoMACS NEO Separator. It is used to position tubes and reagent racks during automated processing of one or multiple samples. The MACS MiniSampler S can be attached easily to the autoMACS NEO Separator and is compatible with MACS Reagent Racks and MACS Chill Racks.

2.2 Intended use

The MACS MiniSampler S is an accessory for the autoMACS NEO Separator and is intended to be used only in combination with this instrument for automated magnetic cell separation. Its purpose is to adjust the rack position during automated processing of multiple samples. It is to be used only with MACS Chill Racks and MACS Reagent Racks.

The combination of the MACS MiniSampler S with the autoMACS NEO Separator is for research-use only. It is intended to be used in research laboratories and is to be operated by professional laboratory personnel only.

2.3 Instrument description

2.3.1 Front

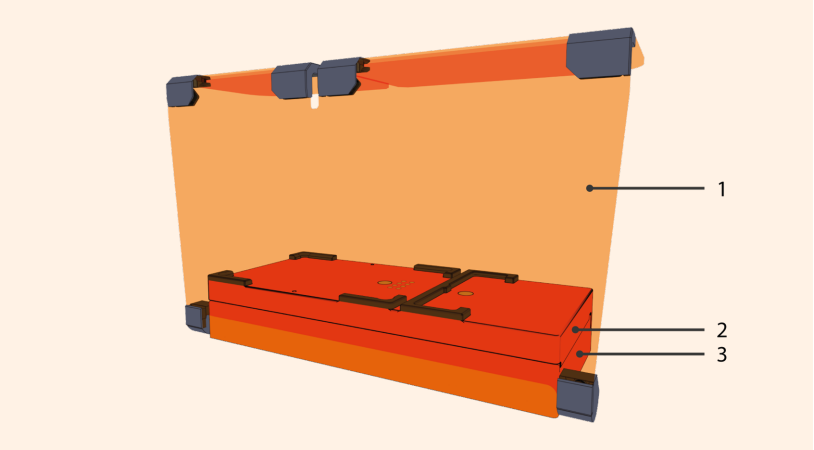


Figure 2.1: Front view of the MACS MiniSampler S

1 Protective cover

2 Carriage

3 Base

2.3.2 Top

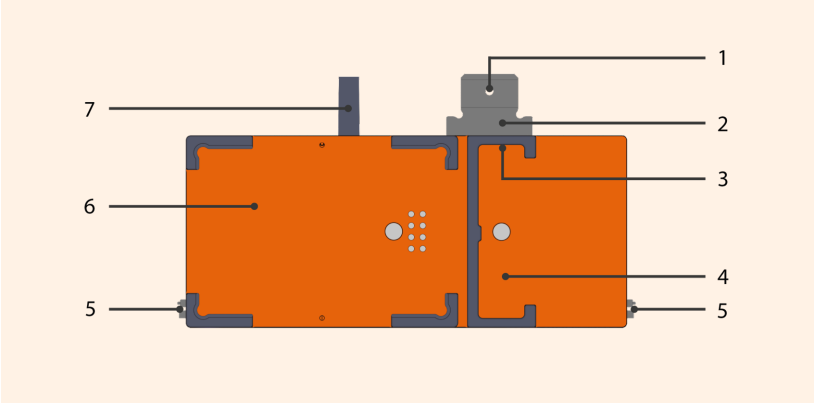


Figure 2.2: Top view of the MACS MiniSampler S

1 Borehole for knurled screw

2 Mounting bracket (connection to autoMACS NEO Separator)

3 Undercut in the recess (for rack engagement hook)

4 Recess for MACS Reagent Racks

5 Cover mounting brackets

6 Recess for MACS Chill Racks

7 Power cable

3

Installation

3.1 Components included in the delivery

The following components are included in the delivery of the MACS MiniSampler S (# 130-123-093):

Component
MACS MiniSampler S
Protective cover
Knurled screw
User manual

Table 3.1: Components included in the delivery

3.2 Accessories

Component	Description	Order no.
Chill 5 Rack, 1 rack	Chill Rack for 5 mL tubes	130-092-951
Chill 5 Rack, 3 racks	3 Chill Racks for 5 mL tubes	130-097-041
Chill 15 Rack, 1 rack	Chill Rack for 15 mL tubes	130-092-952
Chill 15 Rack, 3 racks	3 Chill Racks for 15 mL tubes	130-097-036
Chill 50 Rack, 1 rack	Chill Rack for 50 mL tubes	130-092-953
Chill 50 Racks, 3 racks	3 Chill Racks for 50 mL tubes	130-097-037
Chill 5, 15, 50 Rack Set, 3 racks	Set of 3 different Chill Racks	130-097-038
MACS Reagent Rack 8	Accommodates 8 vials of MACS Reagents	130-123-135

Table 3.2: Accessories for the MACS MiniSampler S

3.3 Assembly

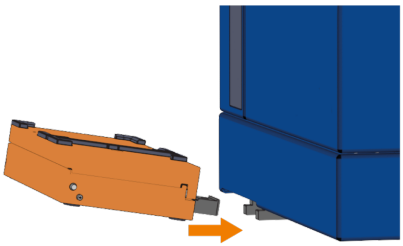
⚠ WARNING

Electric devices bear the risk of electric shock, short circuits, overheating, fire, and explosion. This may lead to burns, severe personal injury, or death.

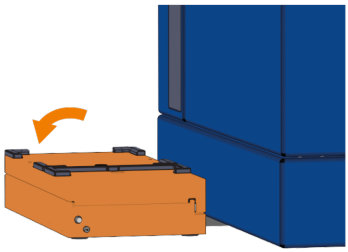
- Do not use the instrument if it has been dropped or is damaged.

Use the MACS MiniSampler S with the autoMACS NEO Separator only. Do not use other MiniSampler models. Every MACS MiniSampler S should be used with one instrument only.

1. Make sure that the autoMACS NEO Separator is switched off.
2. Remove the MACS MiniSampler S from the packaging.
3. The receiving slot for the MACS MiniSampler S mounting bracket is located at the front of the autoMACS NEO Separator. Tilt the MACS MiniSampler S and slide the mounting bracket into the receiving slot until a resistance is met.



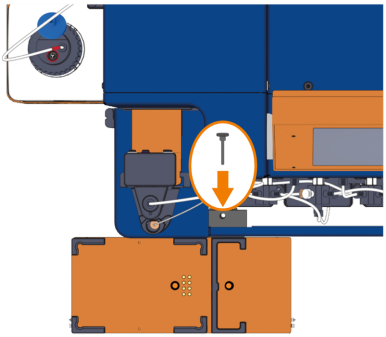
4 Lower the MACS MiniSampler S to a horizontal position until it is locked.



5 Open the front cover of the autoMACS NEO Separator.

The MACS MiniSampler S is installed correctly when the boreholes in the autoMACS NEO Separator and in the MACS MiniSampler S mounting bracket are aligned.

6 Secure the MACS MiniSampler S with the supplied knurled screw. Turn the screw into the overlapping boreholes.

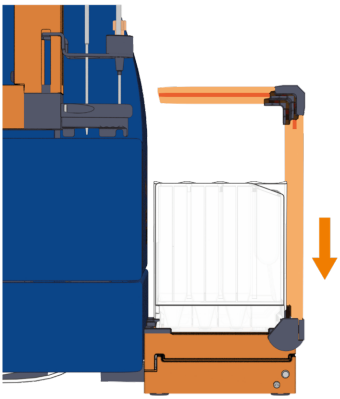


7 Close the front cover of the autoMACS NEO Separator.

8 Guide the power cable under the autoMACS NEO Separator.

9 Connect the power cable to the socket labeled **Power CAN** at the rear panel of the autoMACS NEO Separator. Fasten the plug with its screws.

10 Mounting brackets for the protective cover are located on both sides of the MACS MiniSampler S. Attach the cover from above. Keep it attached and closed during operation. Fold the cover open to change racks and samples.



To disassemble the MACS MiniSampler S follow steps 3 to 10 in reverse order.

3.4 Switching on and off

When switching on the autoMACS NEO Separator the MACS MiniSampler S starts automatically. Only during initialization the autoMACS NEO Separator recognizes if a MACS MiniSampler S is connected.

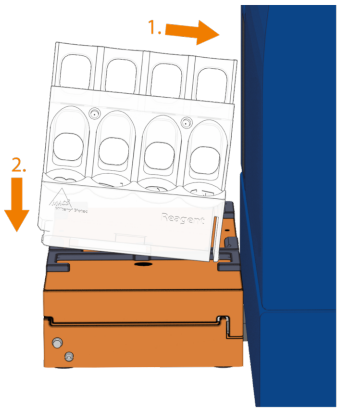
The MACS MiniSampler S switches off automatically when the autoMACS NEO Separator is shutting down.

3.5 Installing racks

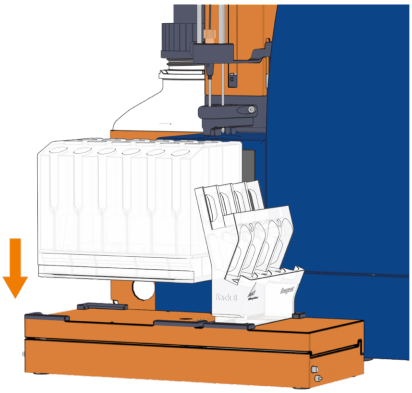
> **⚠ CAUTION**
>
> **Risk of crushing or cutting due to moving parts.**
>
> - Keep away from the MACS MiniSampler S while the instrument is in operation.
> - Do not load or unload samples or racks while the instrument is in motion.

The MACS MiniSampler S is compatible with the racks listed in **Table 3.2**. When defining an experiment, racks must be selected in the **Experiments** tab of the autoMACS NEO Separator user interface (refer to the autoMACS NEO Separator user manual). After experiment start, the barcode of the racks on the MACS MiniSampler S is checked to make sure that the previously selected racks correspond to the installed racks.

1 Place a MACS Reagent Rack into the right recess of the MACS MiniSampler S. Tilt the rack and push it slightly into the recess. The engagement hook has to snap into the undercut.



2 Place a Chill Rack (e.g. Chill 15 Rack) on the left side of the MACS MiniSampler S.



Make sure that the barcodes of the racks are facing the instrument.

3 Rack details are shown in the autoMACS NEO Separator user interface. Refer to the autoMACS NEO Separator user manual for further information.

3.6 Calibrating racks

For calibration of MACS Chill Racks read the calibration instructions in the autoMACS NEO Separator user manual.

4

Maintenance

Contact Miltenyi Biotec Technical Support regarding spare parts. Miltenyi Biotec also offers service contracts for the autoMACS NEO Separator.
Visit **www.miltenyibiotec.com** for further information.

4.1 Cleaning and disinfection

⚠ WARNING

Liquids inside the instrument can cause short circuits.
This may lead to burns, severe personal injury, or death.

- Unplug the instrument before cleaning it.
- Use only small amounts of cleaning agents on a soft cloth to wipe the instrument. Do not spray or pour liquid cleaning agents onto or into the instrument.

- Clean the MACS MiniSampler S externally.
- Wipe the instrument with a soft cloth.
- Used disinfectants must be in accordance with any local regulations. The housing material is resistant against disinfectants that contain alcohol, 1% sodium hypochlorite, and tensides (such as storage solution or bleach solution).

5

Troubleshooting

Issue	Possible reasons	Solution
Rack detection failed. A dialog box in the autoMACS NEO Separator user interface informs that one or both racks could not be detected.		• First, tap **Cancel** in the dialog box to stop the experiment.
	An improper rack is installed.	• Use only MACS Chill Racks and MACS Reagent Racks with the MACS MiniSampler S.
	The installed rack does not correspond to the defined rack.	• Install the same rack type that has been defined for the experiment.
	The barcode of the rack is damaged.	• Install a rack with intact barcode.
	None of the reasons mentioned apply.	**1** Install a rack. **2** Start the experiment again. **3** Tap **Continue** in the dialog box to continue the experiment without rack detection.
The MACS MiniSampler S does not move as intended.	The MACS MiniSampler S is not connected correctly to the autoMACS NEO Separator.	• Check, if the mounting bracket of the MACS MiniSampler S is connected correctly to the autoMACS NEO Separator.

Issue	Possible reasons	Solution
	The MACS MiniSampler S is not recognized by the autoMACS NEO Separator.	**1** Shut down and switch off the autoMACS NEO Separator. **2** Ensure that the power cable of the MACS MiniSampler S is connected correctly. **3** Check for cable damages. **4** Switch on again and power up the autoMACS NEO Separator.
	The driveway of the carriage is blocked by an object.	• Check for any resistance and collision. • Remove all objects in the driveway of the carriage.

Table 5.1: Troubleshooting for the MACS MiniSampler S

If the problem persists or if you need assistance, contact Miltenyi Biotec Technical Support.

6

Technical data and specifications

The MACS MiniSampler S is labeled as a protection class III device and must be connected to the main instrument.

The instrument is suitable for pollution degree 2 environments.

The instrument has been designed for a lifetime of 10 years.

For other safety considerations, refer to the product label or visit **www.miltenyibiotec.com**.

Design and specifications are subject to change without notice.

6.1 FCC compliance statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications of the instrument, unless expressly approved by Miltenyi Biotec, may void your authority to operate the instrument pursuant to FCC 47 CFR.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential

installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

6.2 Technical data

Technical data	Specification
Model	MACS MiniSampler S
Order number	130-123-093
Footprint (w x d)	230 mm x 100 mm (9.1" x 3.9")
Dimensions (with cover): Width: Depth: Height:	 280–342 mm (11.0"–13.5") (moving carriage) 138–253 mm (5.4"–10.0") (folding cover) 172–179 mm (6.8"–7.1") (folding cover)
Weight (with cover)	2.1 kg (4.6 lbs)
Input voltage	24 V ⎓
Electric current	5 A
Maximum power consumption	140 W
Working temperature	15–30 °C
Humidity	20–80% relative humidity, non-condensing
Altitude	max. 2000 m
Storage conditions	Room temperature; avoid condensing conditions
Emission sound pressure level at workstation	<70 dB(A)

Table 6.1: Technical data of the MACS MiniSampler S

6.3 EC/EU Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany

This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user.

The declaration of conformity refers to the machinery identified as follows:

Description: Laboratory equipment
Model: MACS MiniSampler S

The machinery complies with all essential requirements of the following directives:

2006/42/EC Machinery
2011/65/EU Restriction of the use of certain hazardous substances in electrical & electronic equipment
2014/30/EU Electromagnetic compatibility

The machinery is in conformity with the following harmonized standards:

EN 61010-1:2010
EN 61010-2-081:2015
EN 61326-1:2013

Person authorized to compile the relevant technical documentation:

Dr. Bernd Schröder
Global Head Regulatory Affairs
Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany

6.4 UK Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany

This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user.

The declaration of conformity refers to the machinery identified as follows:

Description: Laboratory equipment
Model: MACS MiniSampler S

The machinery complies with all essential requirements of the following legislations:

Supply of Machinery (Safety) Regulations 2008
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Electromagnetic Compatibility Regulations 2016

The machinery is in conformity with the following UK designated standards:

EN 61010-1:2010
EN 61010-2-081:2015
EN 61326-1:2013

Person authorized to compile the relevant technical documentation:

Dr. Bernd Schröder
Global Head Regulatory Affairs
Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany

7

Technical support

For technical support, contact your local Miltenyi Biotec representative or Miltenyi Biotec Technical Support at Miltenyi Biotec headquarters:

Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany
Phone: +49 2204 8306 3803
Email: technicalsupport@miltenyi.com

Visit **www.miltenyibiotec.com** for local Miltenyi Biotec Technical Support contact information.

8

Legal notes

8.1 Limited warranty

Except as stated in a specific warranty statement which may accompany this product or as otherwise agreed in writing by an authorized representative of Miltenyi Biotec, Miltenyi Biotec's warranty to you, the original purchaser and end user ("you" or "your"), with respect to the product accompanied by this limited warranty shall be subject to the following provisions and the general terms and conditions of sale of the company within the Miltenyi Biotec group which supplied the product in effect at the date of purchase. Those terms and conditions of sale may vary by country and region. Nothing in this document should be construed as constituting an additional warranty.

Miltenyi Biotec warrants that this product will operate or perform substantially in conformance with Miltenyi Biotec's published specifications and be free from material defects in material and workmanship, when subjected to normal, proper, and intended usage by properly trained personnel, for the period of time set forth in the product documentation or package inserts accompanying the product (the "Warranty Period").

Miltenyi Biotec agrees, during the Warranty Period, to repair or replace, at Miltenyi Biotec's option, the defective product so as to cause the same to operate in substantial conformance with said published specifications; provided that you shall (a) promptly notify Miltenyi Biotec in writing upon the discovery of any nonconformity or defect, which notice shall include the product model and serial number (if applicable) and details of the warranty claim; and (b) return the

nonconforming or defective product to Miltenyi Biotec, freight prepaid, only after receipt of a Return Material Authorization ("RMA") from Miltenyi Biotec, which may include biohazard decontamination procedures and other product-specific handling instructions, if applicable.

Miltenyi Biotec shall have no obligation to make repairs, replacements, or corrections to the product or any component thereof required, in whole or in part, as the result of (i) normal wear and tear, (ii) improper handling, installation, operation, storage, service, maintenance, or repair, (iii) failure to follow the instructions, cautions, warnings, and notes set forth in the product documentation provided with the product or provided by Miltenyi Biotec from time to time, (iv) abnormal use, misuse, neglect, abuse, mishandling, misapplication, modification, or alteration of the product, (v) use of the product in a manner for which it was not designed, (vi) causes external to the product such as, but not limited to, power failure or electrical power surges, (vii) use of the product in combination with equipment, accessories, consumables, or software not supplied or approved by Miltenyi Biotec, or (viii) accident, disaster, or acts of God. ANY INSTALLATION, MAINTENANCE, REPAIR, SERVICE, OR ALTERATION TO OR OF, OR OTHER TAMPERING WITH, THE PRODUCT PERFORMED BY ANY PERSON OR ENTITY OTHER THAN MILTENYI BIOTEC AUTHORIZED PERSONNEL WITHOUT MILTENYI BIOTEC'S PRIOR WRITTEN APPROVAL, OR ANY USE OF REPLACEMENT PARTS NOT SUPPLIED BY MILTENYI BIOTEC, SHALL IMMEDIATELY VOID AND CANCEL ALL WARRANTIES WITH RESPECT TO THE AFFECTED PRODUCT.

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Miltenyi Biotec

Germany/Austria
Miltenyi Biotec B.V. & Co. KG
Friedrich-Ebert-Straße 68
51429 Bergisch Gladbach
Germany
Phone +49 2204 8306-0
Fax +49 2204 85197
macsde@miltenyi.com

USA/Canada
Miltenyi Biotec Inc.
2303 Lindbergh Street
Auburn, CA 95602, USA
Phone 800 FOR MACS
Phone +1 866 811 4466
Fax +1 877 591 1060
macsus@miltenyi.com

Australia
Miltenyi Biotec
Australia Pty. Ltd.
Unit 11, 2 Eden Park Drive
Macquarie Park NSW 2113
Australia
Phone +61 2 8877 7400
Fax +61 2 9889 5044
macsau@miltenyi.com

Benelux
Miltenyi Biotec B.V.
Dellaertweg 9C
2316 WZ Leiden
The Netherlands
macsnl@miltenyi.com
Customer service for:
The Netherlands
Phone 0800 4020120
Fax 0800 4020100
Belgium
Phone 0800 94016
Fax 0800 99626
Luxembourg
Phone 800 24971
Fax 800 24984

China
Miltenyi Biotec Technology &
Trading (Shanghai) Co., Ltd.
Room A401, 4/F
No. 1077, Zhangheng Road
Pudong New Area
201203 Shanghai, P.R. China
Phone +86 21 6235 1005-0
Fax +86 21 6235 0953
macscn@miltenyi.com.cn

France
Miltenyi Biotec SAS
10 rue Mercoeur
75011 Paris, France
Phone +33 1 56 98 16 16
macsfr@miltenyi.com

Hong Kong
Miltenyi Biotec Hong Kong Ltd.
Unit 301, Lakeside 1
No. 8 Science Park West Avenue
Hong Kong Science Park
Pak Shek Kok, New Territories
Hong Kong
Phone +852 3751 6698
Fax +852 3619 5772
macshk@miltenyi.com.hk

India
Miltenyi Biotec India Pvt. Ltd.
Vatika Business Centre,
Floor No. 6
Divya Sree Omega
Kondapur, Serilingampally
K.V. Rangareddy
Telangana 500084, India
Phone +91 040 45175910
macsin@miltenyi.com

Italy
Miltenyi Biotec S.r.l.
Via Paolo Nanni Costa, 30
40133 Bologna, Italy
Phone +39 051 6 460 411
Fax +39 051 6 460 499
macsit@miltenyi.com

Japan
Miltenyi Biotec K.K.
NEX-Eitai Building 5F
16-10 Fuyuki, Koto-ku,
Tokyo 135-0041, Japan
Phone +81 3 5646 8910
Fax +81 3 5646 8911
macsjp@miltenyi.com

Nordics and Baltics
Miltenyi Biotec Norden AB
Medicon Village
Scheeletorget 1
223 81 Lund, Sweden
macsse@miltenyi.com
Customer service for:
Sweden
Phone 0200 111 800
Fax +46 280 72 99
Denmark
Phone 80 20 30 10
Fax +46 46 280 72 99
Norway, Finland, Iceland,
and Baltic countries
Phone +46 46 280 72 80
Fax +46 46 280 72 99

Singapore
Miltenyi Biotec Asia Pacific Pte Ltd.
438B Alexandra Road, Block B
Alexandra Technopark
#06-01
Singapore 119968
Phone +65 6238 8183
Fax +65 6238 0302
macssg@miltenyi.com

South Korea
Miltenyi Biotec Korea Co., Ltd.
Donggeuk 7F,
562 Nonhyeon-ro
Gangnam-gu
Seoul 06136, South Korea
Phone +82 2 555 1988
Fax +82 2 555 8890
macskr@miltenyi.com

Spain
Miltenyi Biotec S.L.
C/Virgilio 2, Edificio II, Planta –1
28223 Pozuelo de Alarcón
Madrid, Spain
Phone +34 91 512 12 90
Fax +34 91 512 12 91
macses@miltenyi.com

Switzerland
Miltenyi Biotec Swiss AG
Soodstrasse 52
8134 Adliswil
Switzerland
Phone +41 32 623 08 47
Fax +49 2204 85197
macsch@miltenyi.com

United Kingdom
Miltenyi Biotec Ltd.
Almac House, Church Lane
Bisley, Surrey GU24 9DR, UK
Phone +44 1483 799 800
Fax +44 1483 799 811
macsuk@miltenyi.com

www.miltenyibiotec.com

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