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# Mastercycler® nexus

SOP - Operational Qualification - English

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### **Notice**

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## 1 Introduction

### 1.1 Using this manual

- ▶ Ensure that you have a copy of the latest versions of the service manual and operating instructions. Check this using the version numbers at [www.eppendorf-support.com](http://www.eppendorf-support.com) and [www.eppendorf.com](http://www.eppendorf.com).
- ▶ Read the service manual before starting work on the device.
- ▶ Read the chapters "Installation" and "Operation" of the operating manual.
- ▶ Observe the safety instructions in the operating manual.

### 1.2 Liability

The Eppendorf service partner entrusted with maintenance, servicing or testing is liable for ensuring that all work is carried out in a professional manner.

- ▶ The constructional features of the device must not be modified by servicing, maintenance or testing. The device must always be as safe as in its original state.
- ▶ Only accessories and original spare parts recommended by Eppendorf as well as measuring and test equipment recommended by Eppendorf may be used for any maintenance, servicing or testing work.

### 1.3 User profile

The specialist entrusted with maintenance, repair or testing must meet the following prerequisites:

- Successful participation in service trainings with certification by Eppendorf AG for the product that is to be maintained, repaired or tested.
- Qualification as a specialist with knowledge of the applicable local and international standards.
- Qualification to evaluate the work assigned to him.
- Recognition of potential hazards and how to prevent or correct them.

### 1.4 Notes on this document

- ▶ Include other documents, such as explanations, printouts, recordings and results, with the OQ. List these documents under "Appendices".
- ▶ At the end of this OQ, you will find a list for documenting all inspections which were completed on a device. Enter the test you performed, and the date of the next test, into this list.
- ▶ If a list is already available at the customer's premises, enter the test you have performed into this list. Do not use a new list for each test.

### 1.5 Abbreviations

OQ – Operational Qualification

SM – Service Manual

OM – Operating Manual

**Introduction**

Mastercycler® nexus  
English (EN)

**1.6 Device data****1.6.1 Mastercycler nexus**

Company / Operator:

Location where the device is used (building, floor, room, lab etc.):

Place where the operating manual is kept:

Place where the service manual is kept:

Inventory number of the device:

Manufacturer: Eppendorf AG

Type designation:

Serial number:

Voltage in volts:

Frequency in Hz:

Installation date (day/month/year):

### 1.6.2 Mastercycler nexus eco 1

Company / Operator:

Location where the device is used (building, floor, room, lab etc.):

Place where the operating manual is kept:

Place where the service manual is kept:

Inventory number of the device:

Manufacturer: Eppendorf AG

Type designation:

Serial number:

Voltage in volts:

Frequency in Hz:

Installation date (day/month/year):

### 1.6.3 Mastercycler nexus eco 2

Company / Operator:

Location where the device is used (building, floor, room, lab etc.):

Place where the operating manual is kept:

Place where the service manual is kept:

Inventory number of the device:

Manufacturer: Eppendorf AG

Type designation:

Serial number:

Voltage in volts:

Frequency in Hz:

Installation date (day/month/year):





## 2 OQ – Mastercycler nexus

### 2.1 Test equipment

Type	Type/serial number	Calibration on	Calibration certificate no.
Temperature Verification System			

### 2.2 Overview of the Mastercycler nexus variants

Device number	Device name	Control pad	Thermoblock	Gradient function
6330	Mastercycler nexus flat eco	-	Thermoblock nexus flat	-
6331	Mastercycler nexus flat	x	Thermoblock nexus 96 Well Al	x
6332	Mastercycler nexus eco	-	Thermoblock nexus 96 Well Al	-
6333	Mastercycler nexus	x	Thermoblock nexus 96 Well Al	-
6334	Mastercycler nexus eco gradient	-	Thermoblock nexus 96 Well Al	x
6335	Mastercycler nexus flat	x	Thermoblock nexus flat	-
6336	Mastercycler nexus GX2	x	Thermoblock nexus X2 32/64	x
6337	Mastercycler nexus X2	x	Thermoblock nexus X2 32/64	-
6338	Mastercycler nexus GX2e	-	Thermoblock nexus X2 32/64	x
6339	Mastercycler nexus X2e	-	Thermoblock nexus X2 32/64	-
6345	Mastercycler nexus GSX1	x	Thermoblock nexus X1 96 Well Ag	x
6346	Mastercycler nexus SX1	x	Thermoblock nexus X1 96 Well Ag	-
6347	Mastercycler nexus GSX1e	-	Thermoblock nexus X1 96 Well Ag	x
6348	Mastercycler nexus SX1e	-	Thermoblock nexus X1 96 Well Ag	-

## 2.3 Function tests



Perform all function tests on the Mastercycler nexus and on the corresponding Mastercycler nexus eco devices.

No.	SM/OM section	Check	Yes	No
OQ 01	————	Switch on the Mastercycler nexus and all the Mastercycler nexus eco devices. No error message appears on the Mastercycler nexus display.		
OQ 02	OM, Chapter 5	The heated lids of the Mastercycler nexus and the Mastercycler nexus eco devices can be opened and closed with the lever.		
OQ 03	SM Chapter 5	The microswitch on the heated lid of each device works.		
OQ 04	————	<b>Only Mastercycler nexus:</b> test the display, key pad and mouse. On the Mastercycler nexus open the following nodes in succession: <i>Eppendorf/System/Service Functions/Panel/</i>		
OQ 04a		To test the display, press the <i>Display</i> softkey. The display is OK.		
OQ 04b		To test the key pad, press the <i>Key pad</i> softkey. The key pad is OK.		
OQ 04c		To test the mouse, press the <i>Mouse</i> softkey. The mouse is OK.		
OQ 05	OM of the Temperature Verification System	The devices have been verified successfully.		
OQ06	OM Chapter 4.2.4	<b>Only Mastercycler nexus:</b> The USB printer was successfully tested for proper functioning on both USB interfaces.		
OQ07	OM Chapter 4.2.4	<b>Only Mastercycler nexus:</b> The USB stick was successfully tested for proper functioning on both USB interfaces.		
OQ09	OM Chapter 8.7	Establish the network connection. The devices work without errors in the network.		
OQ 09	OM Chapter 7	A PCR test run was carried out successfully with the Mastercycler nexus and the Mastercycler nexus eco devices.		

Remarks

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Appendices (e.g., calibration certificates, technician's certificates)

1: 

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2: 

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3: 

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4: 

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5: 

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City, date

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Signature of technician

---

City, date

---

Signature of user





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