PREP Assistant

Software manual
from software version 40.1
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## 1 Operating instructions

### 1.1 Using this manual

Your epMotion operating manual consists of hardware instructions and software instructions. Short instructions are available for optional software enhancements.

The operating manual is part of the product.

The current version of the operating manual can be found on our webpage: [www.eppendorf.com](http://www.eppendorf.com).

- Read the operating manual in full before using the device.
- Store the operating manual at an easily accessible location.
- The device may only be transferred with the operating manual.
- If the operating manual is lost, replace it immediately. Please contact Eppendorf AG for further details.

### 1.2 Symbols used

<table>
<thead>
<tr>
<th>Depiction</th>
<th>Meaning</th>
</tr>
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<tbody>
<tr>
<td>1. 2.</td>
<td>Actions in the specified order</td>
</tr>
<tr>
<td>❖</td>
<td>Actions without a specified order</td>
</tr>
<tr>
<td>✪</td>
<td>List</td>
</tr>
<tr>
<td>Text</td>
<td>Display text or software text</td>
</tr>
<tr>
<td>🔄</td>
<td>Additional information</td>
</tr>
</tbody>
</table>
2 Product description

2.1 Software description

The Prep Assistant is a software for epMotion with magnetic finger module.

The Prep assistant offers incremental workflows for specific applications. No programming experience is required to use the Prep assistant.

To run the Prep Assistant, you need the TS 50 and TS 1000 dispensing tools.

An assistant is available for every MagSep kit from Eppendorf AG. The assistants are shown as symbols on the epBlue start screen. Select the assistant that matches your MagSep kit.

MagSep Blood gDNA
- Use the MagSep Blood gDNA kit to carry out the protocol for purification of genomic DNA from whole blood.

MagSep Tissue gDNA
- Use the MagSep Tissue kit to carry out the protocol for purification of genomic DNA from tissue. The assistant can also be used with this reagent kit for cell cultures, yeast or bacteria.

MagSep Viral DNA/RNA
- Use the MagSep Viral DNA/RNA kit to carry out the protocol for purification of viral RNA or DNA from cell-free body fluids.

Purification on the epMotion takes 1 to 2.5 h, depending on the number of samples.

Setup Reactions
- For the epMotion 5075, the Prep Assistant also contains the Setup Reactions function. The Setup Reactions function is carried out after the protocol for the purification of DNA/RNA. The Setup Reactions function allows you to dilute purified samples and combine samples with mastermixes.
3 Operation
3.1 Preparing applications
3.1.1 Updating the labware library

You can combine a wide variety of plates, tubes and racks and insert them into the epMotion. To use labware, a labware definition must be stored in the labware library.

1. Check to see if the labware definition is available in the labware library.
2. Import the labware definition if necessary.
3. Create a labware combination if necessary.

For information on how to import files into the labware library and create labware combinations, refer to the software operating manual.

3.1.2 Preparing samples and tubes for purification

Racks, samples and reagents must be prepared for the application. Information on preparing samples and reagents can be found in the instructions for use of the MagSep kits.

3.1.2.1 Preparing the ReagentRack

![ReagentRack with reagents](image)

**NOTICE! Material damage due to sample loss.**
When the application is started, epMotion measures the level in the reagent bottle at position 5 (beads). epMotion uses this level to calculate the volume of the reagents in the other reagent bottles.

- Do not refill the reagent bottles.
- Only use reagent bottles which belong to the tray. Do not use reagent bottles that belong to other trays.

1. The reagent bottles have numbers and the positions in the trays are numbered. Check to see if the number on each reagent bottle matches the number on the tray.
2. Insert the tray in the ReagentRack so the labels on the tray and ReagentRack point toward the user.
3. Open the reagent bottles.
3.1.2.2 Preparing the PrepRack

![PrepRack](image)

The PrepRack may only be used with the 2.0 mL Safe-Lock tubes delivered with the MagSep kit.

**Prerequisites**

- Samples were prepared in accordance with the instructions for use of the MagSep kits.

1. Place the same number of Safe-Lock tubes in the PrepRack as the number of samples to be processed.
   - Place the first Safe-Lock tube at position 1 in the upper left hand corner. Position additional Safe-Lock tubes according to the numbering of the rack.
2. Open the Safe-Lock tubes.
3. Insert the lids of the tubes in the holders next to the tube positions.

3.1.2.3 Preparing the rack for blood collection tubes

These instructions only apply to MagSep Blood gDNA kits.

Blood samples can be immediately presented in the blood collection tubes.

![Rack for 24 tubes](image)

To process the blood collection tube on the epMotion, the tube must have at least 1 mL of sample material.

1. Check to see if the rack/blood collection tube labware combination is in the labware library.
2. If necessary, create a rack/blood collection tube labware combination in the labware library.
   - Information on this can be found in the software operating manual.
3. Carefully shake the blood collection tube.
4. Place the blood collection tube in the rack.
5. Place the first blood collection tube at position 1 in the upper left hand corner. Position additional blood collection tubes according to the rack numbering.
6. Open the blood collection tube.

3.1.2.4 Preparing the rack for elution tubes

![1.5/2.0 mL rack](image)

Eppendorf AG recommends using the 2.0 mL Safe-Lock tubes DNA LoBind from the MagSep kit to collect the eluates.

1. Check to see if the rack/tubes labware combination is available in the labware library.
2. If necessary, create the labware combination in the labware library.
   Information on this can be found in the software operating manual.
3. Position the same number of tubes in the rack as the number of samples to be processed.
   Place the first tube at position 1 in the upper left hand corner. Position additional tubes according to the numbering of the rack.
4. Open the tubes.
5. Insert the lids of the tubes in the holders next to the tube positions.

3.1.2.5 Preparing the plate for collecting the eluates

1. Check to see if the labware definition of the plate is available in the labware library.
2. If necessary, import the labware definition of the plate.
   Information on this can be found in the software operating manual.
3.1.2.6 Preparing the container for liquid waste

**Liquid waste tub**

In the epMotion 5073, liquid waste is disposed of into the LiquidWasteTub.

Fig. 3-5: LiquidWasteTub

- Hang the LiquidWasteTub on the right wall of the waste box.

**ReservoirRack 3**

In the epMotion 5075, liquid waste is disposed of into the ReservoirRack 3.

Fig. 3-6: ReservoirRack 3

1. Place a 100 mL reservoir in position 1 of ReservoirRack 3.
2. Place ReservoirRack 3 on location A5 in the worktable.

3.1.3 Preparing tubes and labware for dilution and PCR setup

Prepare the tubes and plates as follows:

1. Open the tubes.
2. Insert the tubes into the rack so that the lids do not hide the tube openings.
3. Place PCR plates without full edge into a PCR 96 thermoblock.

- Observe the filling volume of the tubes.
  
  If the required volume exceeds the allowable filling volume, your application will not start.
3.1.3.1 Equipping the PCR 96 thermoblock with PCR tubes

If you work with PCR tubes with hinged lids, equip the PCR 96 thermoblock as follows:

1. Place the PCR tubes into the positions of the thermoblock column by column, beginning with column 1.
2. Keep every 2nd column free.

Fig. 3-7: Tube lid rotated 45° to the surface of the thermoblock
3.2 Using the assistant

3.2.1 Starting the assistant

1. Switch on the epMotion.
   The epBlue start screen appears.

2. Select an application in the Assistant area. Click on the application symbol.
   The application will open; the start screen appears.
   All applications consist of several program steps. Each program step will be shown in a window. All windows have the same appearance.

---

Fig. 3-8: Assistant start screen

1. **File menu**
   Information on the File menu can be found in the software operating manual.

2. **Status area**
   epMotion status

3. **Work area**
   Information on the current program step

4. **Information area**
   Access to all program steps. When you click on a program step, it will be shown in the work area.

5. **Navigation area**
   < button - return to the last step.
   > button - go to the next step.

6. **Cancel button**
   End the assistant and return to the start screen.
3.2.2 Entering information

For information on using the software, refer to the software operating manual.

**Automatically show the screen key pad.**
- epBlue automatically shows a key pad if you have selected an input field.

**Manually show the screen key pad.**
- In the File menu, select the Show keyboard entry.

**Checking the entries**
- The software checks each entry. If an entry leads to a conflict, the input field is outlined in red. Information about the conflict will appear below the input field.

**Entering tube positions**
- The positions of a rack are numbered by row. The top left position has the number 1. Enter the tube position in a rack as a number.
- The rows of a plate are designated by letters, the column by numbers. In order to specify the position of a well, enter the row and the column, e.g. A1.

3.2.3 Ending the assistant

1. Click on the Cancel button to end the assistant.
   The entered values will not be saved.
2. Alternatively, in the File menu, you can click on the Exit to Start Screen entry.

3.3 Creating an application

3.3.1 Selecting the sample type

For the DNA Tissue + Setup Reaction and DNAViral + Setup Reaction applications you can select the sample type.

**MagSep Tissue gDNA**
- Select the sample type.
  - Tissue lysate
  - Cell/bacteria pellet

**MagSep Viral DNA/RNA**
- Select the nucleic acid you would like to isolate.
  - Viral DNA
  - Viral RNA
  - Viral RNA including Proteinase K digest

For information on using the software, refer to the software operating manual.
3.3.2 Entering the number of samples

1 to 24 samples are processed in an application.

- Enter the number of samples.

3.3.3 Selecting the source labware (MagSep Blood gDNA)

Fig. 3-9: Select labware for samples window

Select whether you would like to present the blood samples in 2.0 mL Safe-Lock tubes in the PrepRack, or in blood collection tubes in a rack. Information on the selected labware will be shown at the right.

- If you use a rack with blood collection tubes, select labware from the Racks with Tubes folder.
- In order to determine the filling level in the blood collection tubes with the optical sensor, activate the Volume detection in labware checkbox.
- If you use the PrepRack with 2.0 mL Safe-Lock tubes, activate the Use PrepRack for blood samples checkbox.
3.3.4 Selecting the destination labware

Select the labware for collecting purified nucleic acid eluates.

1. Select the labware.
   Information on the selected labware will be shown at the right.

2. If you use the elution rack with the supplied 2.0 mL Safe-Lock tubes, in the Racks with Tubes folder, select the Rack_Elution_2_0ml labware.

3.3.5 Selecting pipette tips

You can use pipette tips with or without filters.

At the start of the application, the epMotion checks to see if the pipette tips on the epMotion worktable match the selected pipette tips.

- Select the pipette tips.
- If you use pipette tips with a filter, activate the Use filter tips option.
- If you use pipette tips without a filter, deactivate the Use filter tips option.
3.3.6 Using pipette tips multiple times

Information
Only use pipette tips multiple times when you work with Eppendorf epT.I.P.S. Motion SafeRacks. SafeRacks have a partition that prevents pipette tips from coming into contact with each other, which prevents contamination.

The epMotion pipette tips can be used more than once in order to save pipette tips. Pipette tips that aspirate wash buffer and transfer it to the container for liquid waste are used multiple times. One pipette tip is allocated per sample.

- If you use pipette tips multiple times, activate the **Re-use tips** option.
- If you only use pipette tips once, deactivate the **Re-use tips** option.

3.3.7 Entering the elution volume

The volume transferred to the elution tubes is 5 µL smaller than the elution volume entered in the Assistant. This prevents carry-over of beads into the elution tubes.

*MagSep Blood kit* or *MagSep Viral DNA/RNA kit*
- Enter the volume of the elution buffer (25 µL to 100 µL).

*MagSep Tissue kit*
- Enter the volume of the elution buffer (25 µL to 200 µL).
3.3.8 Selecting the dilution of eluates

This step is only available for the epMotion 5075.

You can dilute eluates after purification.

1. To dilute eluates, activate the Dilute samples checkbox.
2. Select the labware for diluent in the Select labware for diluent window.
3. Select the destination labware in the Select labware for diluted eluates window.

Fig. 3-11: Define dilution parameters window

- **Diluent position in ... input field**: Position of the diluent in the source labware
- **Diluent volume input field**: Diluent volume
- **Sample volume input field**: Sample volume

4. Select the dilution parameters.
3.3.9 Selecting the PCR setup

This step is only available for the epMotion 5075.

After purification, you can combine the eluates with mastermixes.

1. To combine the eluates with mastermixes, activate the **PCR setup** checkbox.
2. Select the labware for mastermixes.
3. Select the destination labware for PCR.

![Diagram](image)

Fig. 3-12: Define Mastermixes window

- **Position in Rack** column: Position of the mastermix in the source labware
- **Name** column: Name of the mastermix, optional

4. Define mastermixes
5. Define the sample volume and the transfer type.

**Fig. 3-13:** Define reaction volume window

*Sample volume per reaction* input field
Sample volume per reaction

*Mastermix volume per reaction* input field
Mastermix volume per reaction

*Select transfer type* input fields
Select the transfer type
6. Define the number of reactions and arrangement in the destination labware.

Number of samples input field
   Number of samples

Number of replicate reactions per sample input field
   Number of reaction batches per sample (replicates)

Arrangement in destination buttons
   Arrangement of samples, mastermixes and replicates in the destination labware

Center destination checkbox
   Arrange the samples in the center of the destination labware
7. Export the pattern of the destination labware as a CSV or PDF file.

3.3.10 Equipping the worktable

For information on equipping the worktable, refer to the software operating manual.

- Equip the epMotion worktable in the same manner as the epBlue worktable.
3.3.11 Starting the application

If the entries have been completed, start the application.

Prerequisites

- The *Overview worktable* window is open.

1. Click on the *Save* button to save the application under a new name.
   
   Saved applications can be opened and changed in the epBlue Studio. A description of this procedure can be found in the software operating manual.

2. Click on the *Run* button to start the application.

![Volume settings](image)

![Worktable settings](image)

Fig. 3-16: Setting the run parameters

3. Activate the parameters of the optical sensor.

   For information on using the optical sensor, refer to the software operating manual.

   Eppendorf AG recommends activating all optical sensor parameters.

   The optical sensor realizes the level detection for the labware for which you activated the *Volume detection in labware* checkbox.

4. Press the *Next* button.
The values in the Volume [µL] column are larger than the volume that is actually in the tubes. If liquids are aspirated from the tubes, the stroke of the dispensing tool is larger than the volume in the tubes. This means that the liquid which runs off the tube inner walls will also be aspirated. The remaining volume in the tubes will be reduced.

All values in the Volume [µL] column must match the first value in the Minimum Volume [µL] column.

The PrepRack information window is used for viewing only. Do not change any settings in this window.

5. Click on the Run button to start the application.
   For information on controlling an application, refer to the software operating manual.

6. When the application is finished, press on the Exit to Start Screen button.
4 Displaying, saving and printing protocols

The software automatically saves the last executed application of each assistant. The existing application will be overwritten when a new application is started.

For information on using protocols, refer to the software operating manual.
5 Troubleshooting
5.1 Error messages

Information on error messages can be found in the software operating manual and the epMotion hardware operating manual.

If an error occurs, check the following items first:

<table>
<thead>
<tr>
<th>Symptom/message</th>
<th>Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>An error message appears before the start of the application.</td>
<td>• A volume in the application is larger than the filling volume of the selected vessel.</td>
<td>• Select a vessel that holds this volume.</td>
</tr>
<tr>
<td>Your labware does not appear in the selection.</td>
<td>• The labware library does not have a definition of this labware.</td>
<td>• Import the labware definition into the labware library.</td>
</tr>
<tr>
<td></td>
<td>• The labware was deactivated in the labware library.</td>
<td>• Activate the labware in the labware library.</td>
</tr>
<tr>
<td>The optical sensor does not detect the level.</td>
<td>• There is foam is on the liquid.</td>
<td>• Briefly centrifuge vessels.</td>
</tr>
<tr>
<td></td>
<td>• The surface of the liquid is uneven, e.g., due to the meniscus of the liquid or the formation of foam</td>
<td>• Then quickly vortex or shake the vessels.</td>
</tr>
<tr>
<td>The optical sensor does not detect the level.</td>
<td>• There is not enough liquid in the vessel. The detection limit of the optical sensor has not been reached.</td>
<td>• Enter the volume manually.</td>
</tr>
</tbody>
</table>
6 Ordering Information

For comprehensive ordering information on pipette tips, labware and accessories, please refer to the hardware operating manual.

6.1 Dispensing tools

<table>
<thead>
<tr>
<th>Order no. (International)</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>5280 000.010</td>
<td>Single-channel dispensing tool TS 50</td>
</tr>
<tr>
<td></td>
<td>Volume range 1 µL - 50 µl</td>
</tr>
<tr>
<td>5280 000.053</td>
<td>Single-channel dispensing tool TS 1000</td>
</tr>
<tr>
<td></td>
<td>Volume range 40 µL - 1000 µl</td>
</tr>
</tbody>
</table>

6.2 Recommended pipette tips

epT.I.P.S. Motion SafeRack are intended for the reuse of tips within an epMotion application. They feature compartments which separates adjacent tips. The compartments prevent cross contamination of residual liquid in used tips. The use of epT.I.P.S. Motion SafeRacks is recommended when the Re-use tips option is selected in the software assistant.

<table>
<thead>
<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>0030 014.618</td>
<td>epT.I.P.S. Motion Filter 50 µL</td>
</tr>
<tr>
<td></td>
<td>10 SafeRacks with 96 tips each</td>
</tr>
<tr>
<td></td>
<td>PCR clean</td>
</tr>
<tr>
<td>0030 014.650</td>
<td>epT.I.P.S. Motion Filter 1000 µL</td>
</tr>
<tr>
<td></td>
<td>10 SafeRacks with 96 tips each</td>
</tr>
<tr>
<td></td>
<td>PCR clean</td>
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6.3 Alternative pipette tips

<table>
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<th>Description</th>
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<tr>
<td>0030 014.405</td>
<td>epT.I.P.S. Motion 50 µL</td>
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<tr>
<td></td>
<td>10 racks with 96 tips each</td>
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<tr>
<td></td>
<td>Eppendorf Quality</td>
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<tr>
<td></td>
<td>Sterile</td>
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<tr>
<td>0030 015.207</td>
<td>epT.I.P.S. Motion 1000 µL</td>
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<tr>
<td></td>
<td>10 racks with 96 tips each</td>
</tr>
<tr>
<td></td>
<td>Eppendorf Quality</td>
</tr>
<tr>
<td></td>
<td>Sterile</td>
</tr>
<tr>
<td>0030 014.480</td>
<td>epT.I.P.S. Motion Filter 50 µL</td>
</tr>
<tr>
<td></td>
<td>10 racks with 96 tips each</td>
</tr>
<tr>
<td>0030 015.240</td>
<td>epT.I.P.S. Motion Filter 1000 µL</td>
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<tr>
<td></td>
<td>10 racks with 96 tips each</td>
</tr>
<tr>
<td>0030 014.413</td>
<td>epT.I.P.S. Motion Filter 50 µL</td>
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<tr>
<td></td>
<td>10 racks with 96 tips each</td>
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</table>
### MagSep Kits

<table>
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<th>Description</th>
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<tr>
<td>0030 450.000</td>
<td>MagSep Tissue gDNA Kit</td>
</tr>
<tr>
<td>0030 451.007</td>
<td>MagSep Blood gDNA Kit</td>
</tr>
<tr>
<td>0030 452.003</td>
<td>MagSep Viral DNA/RNA Kit</td>
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</table>

### Consumables

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<tr>
<td>0030 123.301</td>
<td>Eppendorf Safe-Lock Tube 0.5 mL</td>
</tr>
<tr>
<td>0030 123.328</td>
<td>Eppendorf Safe-Lock Tube 1.5 mL</td>
</tr>
<tr>
<td>0030 123.344</td>
<td>Eppendorf Safe-Lock Tube 2.0 mL</td>
</tr>
<tr>
<td>0030 128.648</td>
<td>twin.tec PCR Plate 96, skirted</td>
</tr>
<tr>
<td>0030 128.575</td>
<td>twin.tec PCR Plate 96 unskirted</td>
</tr>
</tbody>
</table>

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<table>
<thead>
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<th>Description</th>
</tr>
</thead>
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<td>0030 133.307</td>
<td>low profile, clear</td>
</tr>
<tr>
<td>0030 133.366</td>
<td>standard profile, clear</td>
</tr>
<tr>
<td>0030 132.513</td>
<td><strong>twin.tec real-time PCR Plate 96 skirted</strong> wells white, 25 pieces white</td>
</tr>
<tr>
<td>0030 132.548</td>
<td><strong>twin.tec real-time PCR Plate 96 semi-skirted</strong> wells white, 25 pieces white</td>
</tr>
<tr>
<td>0030 132.700</td>
<td><strong>twin.tec real-time PCR Plate 96 unskirted</strong> wells white, 20 pieces low profile, white</td>
</tr>
<tr>
<td>0030 124.332</td>
<td><strong>PCR Tubes 0,2 mL</strong> 1,000 pieces PCR clean, colorless</td>
</tr>
<tr>
<td>0030 124.820</td>
<td><strong>PCR Tube Strips + Cap Strips</strong> flat, 10 x 12 strips</td>
</tr>
<tr>
<td>0030 127.811</td>
<td><strong>PCR Film</strong> adhesive, 100 pieces</td>
</tr>
<tr>
<td>0030 127.820</td>
<td><strong>PCR Foil</strong> adhesive, 100 pieces</td>
</tr>
<tr>
<td>0030 132.904</td>
<td><strong>Masterclear real-time PCR Film</strong> adhesive, 100 pieces</td>
</tr>
</tbody>
</table>
Ordering Information
PREP Assistant
English (EN)
Evaluate your manual

Give us your feedback.
www.eppendorf.com/manualfeedback