



For research use only. Not for use in diagnostic procedures.

Prepito DNA Blood250 Kit

DNA purification from up to 250 µl blood

Kit Components

Magnetic Beads	Wash Buffer 6
Lysis Buffer	Elution Buffer
Binding Buffer	Protease
Wash Buffer 3	Deep-Well-Plates
Wash Buffer 4	0.75 mL Reaction Tubes
Wash Buffer 5	Disposable Tips

Completion time: approx. 60 minutes

Typical yield: 5 - 10 µg DNA

Storage Conditions and Safety Information

Expiry dates are stated on the box and on each single component of the kit. Do not use any component of the kit beyond the expiration date. All kit components can be stored at room temperature.

After dissolving, **Protease** solution has to be stored at 4 °C and can be used for 4 weeks. For long term storage we recommend aliquoting the **Protease** solution and storing at –20 °C.

Any further questions?

chemagen Technology technical support: +49 (0) 2401 805-501 | support.chemagen@perkinelmer.com

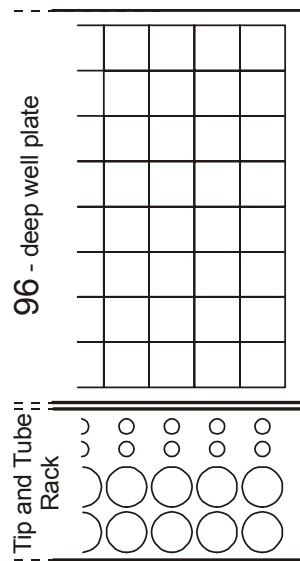




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Positioning Procedure

See “**Protocol Steps**” for detailed information



250 μ L whole blood and **Protease***

Pos. 4 second row for Disposable Tips; **! not used in this protocol !**

Pos. 3 Disposable Tips

Pos. 2 0.75 mL reaction tubes with 150 μ L **Magnetic Beads**

Pos. 1 0.75 mL reaction tubes for **Elution Buffer**

*** Protease is required only for sample volumes more than 200 μ l whole blood**

Before You Start

- Check all kit components for integrity. In case of damages contact your supplier.
- Connect the tubes according to their numbering to the respective counterparts at the **chemagic 8-Pack**. Remove the lids from the individual buffer bottles in the **chemagic 8-Pack** and pierce the septum with the spike placed at the end of each tube. Place the **chemagic 8-Pack** upside down on the reagent holder and use the manual priming function for a complete filling of the dispensing system.
- Dissolve the lyophilized **Protease** in Aqua dest. (see instruction on the tube).

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Protocol Steps (chemagic Prepito serial numbers 1 – 99)

1. Switch the **chemagic Prepito** on and wait until the self test is finished.
2. Press [**change protocol**].
3. Select the **Prepito DNA Blood D250 Kit** protocol by pressing [**Blood 250**].
4. Enter the access code [**1458**] for authorization and confirm by pressing [**enter**].
5. Confirm the selection of the correct protocol by pressing [**enter**].
6. Read the protocol information in the appearing information screen. Confirm by pressing [**continue**].
7. Select the sample positions and confirm by pressing [**continue**].
8. Enter the kit barcode with the barcode scanner and confirm by pressing [**ok**].
9. For the registration of the samples and storage tubes press [**yes**] and follow the instructions on the touch screen panel to enter the according barcodes.
10. Prepare the **chemagic Tip & Tube Rack** with the required materials. Place one empty 0.75 mL reaction tube for the **Elution Buffer** (position 1), one 0.75 mL reaction tube filled with 150 μ L **Magnetic Beads** (position 2) and one **Disposable Tip** (position 3) for each sample into the positions according to the sample positions

! *Shake the vessel with the Magnetic Beads vigorously until all Magnetic Beads are completely resuspended. An incomplete resuspension of the Magnetic Beads can cause a decreased yield of extracted nucleic acids.*

11. Add up to 250 μ L blood to each well of the Deep Well Plate (DWP, riplate SW) defined as sample well (see section above “Positioning of Deep Well Plate and **chemagic Tip & Tube Rack**”).
12. Add 10 μ L **Protease** to each sample well prefilled with blood.

! *Incubation of the blood/Protease mixtures longer than 5 minutes can lead to lower yields and decreased purities of the extracted DNA. Therefore, continue immediately with further protocol steps after adding the blood samples.*

13. An information screen indicates the previously selected sample positions. Ensure that the sample positions in the DWP correspond to the selected positions. Place the DWP on its default position on the tracking system and press [**continue**].

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14. Place the **chemagic Tip & Tube Rack** on its default position on the tracking system. Check for accurate fit of the DWP and **chemagic Tip & Tube Rack** and lock both by closing the safety latch.
15. Close the front door and immediately start the automated isolation process by pressing [**Start**] immediately.

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Protocol Steps (**chemagic Prepito** serial numbers 100 and later)

1. Switch on the **chemagic Prepito** and wait for the self test to finish.
2. Press [**Change Protocol**].
3. Press [**Blood**] in the Select Protocol Group window.
4. Select the **Prepito DNA Blood D250 Kit** protocol by pressing [**Blood 250**] and confirm by pressing [**OK**].
5. Confirm the protocol selection in the Select Protocol Group window by pressing [**OK**].
6. Enter the 4 digit access code [**1758**] for authorization and confirm by pressing [**Enter**].
7. Press [**Start Process**].
8. Read the protocol information in the appearing information screen and confirm by pressing [**Continue**].
9. Select the sample positions and confirm by pressing [**OK**].
10. Enter the kit barcode with the barcode scanner and confirm by pressing [**OK**].
11. For the registration of the samples and the storage tubes press [**Yes**] and follow the instructions on the touch screen panel to enter the according barcodes.
12. Prepare the **chemagic Tip & Tube Rack** with the required materials. Place one empty 0.75 mL reaction tube for the **Elution Buffer** (position 1), one 0.75 mL reaction tube filled with 150 µL **Magnetic Beads** (position 2) and one **Disposable Tip** (position 3) for each sample into the positions according to the sample positions

! *Shake the vessel with the Magnetic Beads vigorously until all Magnetic Beads are completely resuspended. An incomplete resuspension of the Magnetic Beads can cause a decreased yield of extracted nucleic acids.*

13. Add up to 250 µL blood to each well of the Deep Well Plate (DWP, riplate SW) defined as sample well (see section above “Positioning of Deep Well Plate and **chemagic Tip & Tube Rack**”).

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15. An information screen indicates the previously selected sample positions. Ensure that the sample positions in the DWP correspond to the selected positions. Place the DWP on its default position on the tracking system and press [**Continue**].
16. Place the **chemagic Tip & Tube Rack** on its default position on the tracking system. Check for accurate fit of the DWP and **chemagic Tip & Tube Rack** and lock both by closing the safety latch.
17. Close the front door and start the automated isolation process by pressing [**Start**] immediately.

General Remarks

The **Elution Buffer** included in this kit is 10 mM Tris-HCl pH 8.0.

The **Magnetic Bead** suspension should be mixed vigorously before dispensing, otherwise the suspension is not homogenous and the DNA yield could be low.

UV Measurements

In some cases you may find traces of **Magnetic Beads** left in the eluate. Such particles will not interfere with PCR and most downstream applications but may increase the background in UV measurements. In such a case, prior to UV analysis, we recommend an additional separation step using a manual separator (e.g. **chemagic Stand 2x12**, art. No. 300) in order to separate any traces of particles.

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