Quick-Start Protocol March 2016

MagAttract® DNA Blood M48 Kits

The MagAttract DNA Blood Mini M48 Kit (cat. no. 951336) and the MagAttract DNA Blood Midi M48 Kit (cat. no. 951356) can be stored at room temperature (15–25°C).

Further information

- *MagAttract DNA Blood M48 Handbook*: **www.qiagen.com/HB-0348**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- Ensure that you are familiar with operating the BioRobot® M48 workstation. Refer to the *BioRobot M48 User Manual* for operating instructions.
- This protocol is for purification of DNA from blood and buffy coat (Table 1).
- Supplementary protocols for automated purification of DNA from blood products using the MagAttract DNA Blood M48 Kit are available online at **www.qiagen.com/literature**.
- If using frozen blood or buffy coat samples, thaw and equilibrate up to 48 whole blood samples at room temperature (15–25°C).
- For preparation of buffy coat, please refer to handbook instructions.
- Prepare Buffer MW1 as described on the bottle and store at room temperature.
- Before use, check that Buffer ML does not contain a white precipitate by shaking the bottle. Check again when pipetting Buffer ML into the Reagent Container. If necessary, incubate for 30 minutes at 37°C with occasional shaking to dissolve the precipitate.
- Shake the bottle containing MagAttract Suspension B and vortex for 3 minutes (before first use) or 1 minute (before subsequent uses) to ensure that the magnetic silica particles are fully resuspended.

1. Transfer samples to sample tubes, according to the sample volumes and tube sizes in Table 1 (next page). Thawed samples should be resuspended thoroughly before pipetting.

Table 1. Starting materials used in MagAttract DNA Blood M48 procedures

Sample type	Sample (µl)	Tube (ml)	Elution (µl)	Kit	Protocol
Whole blood	100–200	1.5	50–400	Mini	200 µl Blood
Whole blood	250–350	2	100–400	Midi	350 µl Blood
Whole blood	500–700	2	200–400	Midi	700 µl Blood
Buffy coat, enriched > 9x	50–75	2	150–400	Midi	75 µl Buffy coat
Buffy coat, enriched < 9x	100–150	2	150–400	Midi	150 µl Buffy coat
Buffy coat with low leukocyte	200–300	2	150–400	Midi	300 µl Buffy coat

2. Switch on the BioRobot M48, before switching on computer and monitor.
3. Launch the QIAsoft M Operating System.
4. Select the **Genotyping** protocol group from the drop-down menu by clicking on the dark green arrow, and then select **gDNA**.
5. Select the protocol according to Table 1. Click the **Select** button to choose the elution tube type. Enter the number of samples and the sample and elution volumes (Table 1).
6. Place the sample tubes, reagent containers and plasticware on the worktable, according to software instructions.
7. Close the workstation door and start the purification protocol when instructed by the software. All steps are fully automated, and a software message on the screen will indicate when the protocol is finished.
8. Retrieve the elution tubes containing the purified DNA from the cooling block. The DNA is ready to use or can be stored at 2–8°C for 24 h or longer at –20°C.
9. Residual reagents should be removed immediately from the workstation and either transferred to an airtight container for later use or discarded. Residual Buffer ML should always be discarded.

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