Quick-Start Protocol March 2016

# BioSprint® 96 DNA Blood Kit

The BioSprint 96 DNA Blood Kit (cat. nos. 940054 and 940057) can be stored at room temperature (15–25°C) for up to 1 year if not otherwise stated on label. The BioSprint 96 DNA Blood Kit is used with the BioSprint 96 Workstation. The kit uses magnetic-particle technology for rapid DNA purification from whole blood, buffy coat, cultured cells, tissues, rodent tails, buccal swabs and dried blood spots. The sequential transfer of magnetic particles allows rapid purification to be performed. Since the workstation transfers magnetic particles instead of liquids, it uses minimal amounts of reagents, enabling cost-efficient sample preparation. Purified DNA is suitable for use in a range of downstream applications, including PCR, real-time PCR, genotyping and Southern blotting.

## Further information

- *BioSprint 96 DNA Handbook*: **www.qiagen.com/HB-1233**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

## Notes before starting

- The *BioSprint 96 DNA Handbook* provides a detailed description of the DNA purification protocols listed in Table 1. Supplementary protocols for DNA purification from other sample types are available at **www.qiagen.com/resources**.
- We recommend sealing S-Blocks with Tape Pads during sample processing (not required for the rapid blood protocol).
- For all protocols, check that QIAGEN Protease, Buffer AW1, Buffer AW2 and RNase-free water have been prepared according to the instructions in the handbook. In particular, Tween 20 must be added to the RNase-free water to a final concentration of 0.02% (v/v).
- For protocols that require Buffer AL and Buffer ATL, shake the bottles to check that any white precipitate is redissolved. If necessary, incubate for 30 minutes at 37°C with occasional shaking to dissolve precipitate.

- Ensure that you are familiar with operating the BioSprint 96. Refer to the *BioSprint 96 User Manual* for operating instructions.
- 96-rod covers are supplied either as packets of 2 or as packets of 1 inserted into an S-Block. If using a new packet of 2, store the second 96-rod cover on another plate. It is important that the 96-rod cover does not become bent.

**Table 1. Protocol selection guide**

| Starting material | Handbook* | Additional material required |
|---|---|---|
| Human whole blood (100, 200, 250 µl) | 19 | – |
| Human whole blood (100, 200 µl), rapid purification | 24 | – |
| Animal whole blood (100, 200 µl) | 19 | – |
| Buffy coat (100, 200 µl) | 19 | – |
| Cultured cells (up to 5 x $10^6$) | 28 | – |
| Tissue (up to 25 mg) | 33 | Buffer ATL, Proteinase K |
| Rodent tail (up to 25 mg) | 37 | Buffer ATL, Proteinase K |
| Buccal swabs | 41 | Buffer ATL, Proteinase K |
| Dried blood spots | 45 | Buffer ATL, Proteinase K |

* Page of the *BioSprint 96 DNA Handbook* on which the protocol starts.

1. Lyse samples and transfer to S-Blocks according to the chosen protocol in the handbook (see Table 1).
2. Load samples, buffers and plasticware for the protocol as described in the handbook.
3. Start the chosen purification protocol on the BioSprint 96.
4. Remove purified samples from worktable.

Scan QR code for handbook.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual.

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