Quick-Start Protocol March 2016

BioSprint® 15 DNA Blood Kit

The BioSprint 15 DNA Blood Kit (cat. nos. 940014 and 940017) can be stored at room temperature (15–25°C) for up to 1 year if not otherwise stated on label.

Further information

- *BioSprint 15 DNA Handbook*: **www.qiagen.com/HB-1234**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- Check that QIAGEN® Protease, Buffer AW1 and Buffer AW2 have been prepared according to the instructions in the handbook.
- If necessary, incubate Buffer AL for 30 minutes at 37°C to dissolve precipitate.
- Sample volumes: human blood, 100–300 µl; animal blood, 100–200 µl (smaller samples can be adjusted with Buffer AE); bird and fish blood, less than 20 µl blood adjusted to 200 µl with Buffer AE; buffy coat, 100–200 µl.
- Thaw and equilibrate up to 15 whole blood samples at room temperature (15–25°C), or prepare buffy coat samples as described in the handbook.
- Set a water bath or shaker–incubator to 70°C.
- All samples in a single procedure must have the same volume. Adjust volumes with PBS (human blood) or Buffer AE (animal, bird and fish blood).
- If RNA-free DNA is required, add RNase A to the sample before starting.
- Symbols: ■ 100 µl blood; ● 200 µl blood; ▲ 300 µl blood

1. Switch on the BioSprint 15, open the front door and slide out the tube strip tray.
2. Load up to fifteen 5-tube strips into the tube strip tray, and add reagents into each 5-tube strip according to the table on the other side.
3. Pipet ■ 10 µl, ▲ 20 µl or ● 30 µl QIAGEN Protease into a 1.5 ml (blood) or a 2 ml tube (buffy coat). Add ■ 100 µl, ▲ 200 µl or ● 300 µl sample.

Well	Reagent	Volume of reagent (µl)		
		■	▲	●
1	Lysate*	325	650	975
2	Buffer AW1	500	700	1000
3	Buffer AW2	500	500	500
4	Buffer AW2	500	500	500
5	Buffer AE	100	200	300

* Added at step 6 and 7; includes volume of sample, QIAGEN Protease, Buffer AL, isopropanol and MagAttract Suspension G.

4. Add ■ 100 µl, ▲ 200 µl or ● 300 µl Buffer AL, and mix by pulse vortexing for 15 s. Incubate at 70°C for 10 min.
5. Add ■ 100 µl, ▲ 200 µl or ● 300 µl isopropanol, and mix.
6. Transfer the entire lysate into well 1 of the 5-tube strip.
7. Add ■ 15 µl, ▲ 30 µl or ● 45 µl MagAttract Suspension G to the lysate in well 1 of the 5-tube strip.
8. Load up to three 5-rod covers into the rod cover slots and slide back the tube strip tray fully into the BioSprint 15. **Note**: Do not push 5-rod covers further after they click into place, otherwise an instrument crash will occur.
9. Close the front door of the BioSprint 15. Select the protocol ■ "BS15 DNA Blood 100", ▲ "BS15 DNA Blood 200" or ● "BS15 DNA Blood 300" using the ▲ and ▼ keys. Press "START" to start the protocol run.
10. After the protocol run ends, press "STOP", slide out the tube strip tray and transfer the eluted DNA from well 5 of each 5-tube strip for storage.
11. Discard the 5-tube strips and 5-rod covers. Switch off and clean the BioSprint 15 as described in the *BioSprint 15 User Manual*.

Scan QR code for handbook.