

Quick-Start Protocol

QIAsprint® DNA Blood Application

For use with QIAsprint Connect

The QIAsprint DNA Blood PrepSet (cat. no. 585459) is shipped at room temperature (15–25°C). All kit components should be stored dry at room temperature.

Further information

- QIAsprint DNA Blood Application Guide: www.qiagen.com/HB-3712
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: support.qiagen.com

Notes before starting

- Buffer AL and Buffer AW1 contain guanidine salt and are therefore not compatible with disinfecting reagents containing bleach.
- If necessary, redissolve any precipitate in Buffer AL by warming.
- Equilibrate buffers to room temperature.
- All steps should be performed at room temperature. Work quickly.
- Add ethanol (96–100%) to Buffers AW1 and AW2 concentrates before use (see the bottle label for volume).
- Add isopropanol to Buffer RDW concentrate before use (see the bottle label for volume).
- Thaw and equilibrate up to 96 whole blood samples at room temperature (15–25°C).

Procedure

Homogenization and lysis of blood samples

- 1. Pipet 15 µL QIAGEN Proteinase K into the bottom of a well of the prep plate insert. Add 200 µL blood to the Proteinase K.
- 2. Add 200 µL Buffer AL and mix thoroughly either by vortexing for 20 s (in this case, seal the prep plate insert with a tape sheet) or by pipetting up and down at least 10 times. To ensure efficient lysis, it is essential that the sample and Buffer AL are mixed thoroughly to yield a homogeneous solution.

Note: Tape sheet is not provided.

Note: Do not add QIAGEN Proteinase K directly to Buffer AL.

- 3. Prepare a master mix (x + 10% samples) containing 200 µL isopropanol and 20 µL MagG Bead Suspension per sample.
- 4. Add 220 µL isopropanol/bead mix to the blood samples.

Plates preparation

- 5. Prepare the plate as described in the table below:

Plate	Content	Volume (µL)
Lysate Plate	Proteinase K	15
	Blood	200
	Buffer AL	200
	Isopropanol 100%	200
	MagG Bead Suspension	20
Wash Plate 1	Buffer AW1	650
Wash Plate 2	Buffer RDW	500
Wash Plate 3	Buffer AW2	500
Elution Plate	RNase-free Water	100

Procedure on QIASprint Connect

6. Turn on the QIASprint Connect instrument and log in.
7. Navigate to the Protocols screen with the tab in the upper part of the home screen.
8. Locate the desired protocol for the DNA blood application, and press  and  [Run protocol](#).

Optional: Enter the run information in the Run details screen. This information will be displayed in the run report.
9. Close the hood and press **Confirm** to get to the loading screen.
10. With the plate hotels located on the lab bench, insert the plates according to the screen instructions into the hotels.
 - The prep cover must be located in the metal prep cover frame.
 - All prep plates need to sit firmly in their metal frames.
 - The QR codes need to face the user.
11. Open the hood and place the hotels on their platforms, taking care not to mix up the left and right hotels.
12. **Optional:** If you have heating or cooling steps during your protocol run and the thermal adapter is not already located on the heater-cooler, place the thermal adapter in one of the slots of the thermal adapter platform with the QR code facing the user. The instrument will install it automatically during the run.
13. Press **Start run** to start the run.
14. After the end of the run, remove the plate hotels from the instrument. Store the elution plate safely or use it directly in your downstream applications.

Document Revision History

Date	Description
03/2026	Initial release
	Scan the 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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