Quick-Start Protocol November 2021

EZ1&2™ DNA Blood Kits

For use with EZ1 instrument

For usage of the EZ1&2 DNA Blood Kits with EZ2® instruments, please refer to the Handbook (**www.qiagen.com/HB-2965**) and Quick-Start Protocol (**www.qiagen.com/HB-2964**).

The EZ1&2 DNA Blood Kits (cat. nos. 951034 and 951054) can be stored at room temperature (15–25°C) until the indicated expiration date. Do not freeze the reagent cartridges.

Further information

- *EZ1&2 DNA Blood Handbook for use with EZ1 Instrument*: **www.qiagen.com/HB-0197**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- The buffer in well 1 of the reagent cartridge may form a precipitate upon storage. If necessary, re-dissolve by warming at 37°C and then place at room temperature.
- EZ1 instruments should only be switched on after an EZ1 Card is inserted. Make sure that the EZ1 Card is completely inserted, otherwise essential instrument data could be lost. EZ1 Cards should not be exchanged while the instrument is switched on.
- Before loading reagent cartridges into the EZ1 instrument, invert the cartridges 4 times to mix the magnetic particles and then tap to deposit the reagents at the well bottoms. Check that the magnetic particles are completely resuspended.

Procedure

1. To carry out DNA purification from blood or buffy coat samples, use the EZ1 instrument with the appropriate EZ1 Card and EZ1&2 DNA Blood Kit, according to the *EZ1&2 DNA Blood Handbook – For use with EZ1 instrument*. The amounts of starting material for different samples are shown in Table 1.

The EZ1&2 Kit and EZ1 Card required depend on the purification procedure to be carried out and the EZ1 instrument used (Table 2).

Table 1. Amounts of starting material for EZ1&2 DNA Blood procedures

Sample type	Amount of starting material	Elution volume
Blood	200 µl or 350 µl	50 µl, 100 µl, or 200 µl
Buffy coat:*		
Buffy coat, enriched >9x†	50–75 µl	200 µl
Buffy coat, enriched ≤9x	100–50 µl	200 µl
Buffy coat with low leukocyte concentration	200–300 µl	200 µl

* For each buffy coat protocol, the maximum number of cells to use as starting material is 5 x 10^6 cells.

† For example, 1 ml leukocyte-containing fraction harvested from 10 ml centrifuged whole blood = 10x enrichment.

Table 2. Purification of DNA from various sample types using the EZ1 instrument

Sample type	EZ1 Card required	EZ1&2 Kit required
Blood (200 µl)	EZ1 Advanced XL DNA Blood Card,* EZ1 Advanced DNA Blood Card†, or EZ1 DNA Blood Card‡	EZ1&2 DNA Blood 200 µl Kit
Blood (350 µl)	As above	EZ1&2 DNA Blood 350 µl Kit
Buffy coat	EZ1 Advanced XL DNA Buffy Coat Card,* EZ1 Advanced DNA Buffy Coat Card†, or EZ1 DNA Buffy Coat Card‡	EZ1&2 DNA Blood 350 µl Kit

* EZ1 Advanced XL Cards are only for use with the EZ1 Advanced XL.

† EZ1 Advanced Cards are only for use with the EZ1 Advanced.

‡ EZ1 Cards are only for use with the BioRobot® EZ1.

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