

Materials

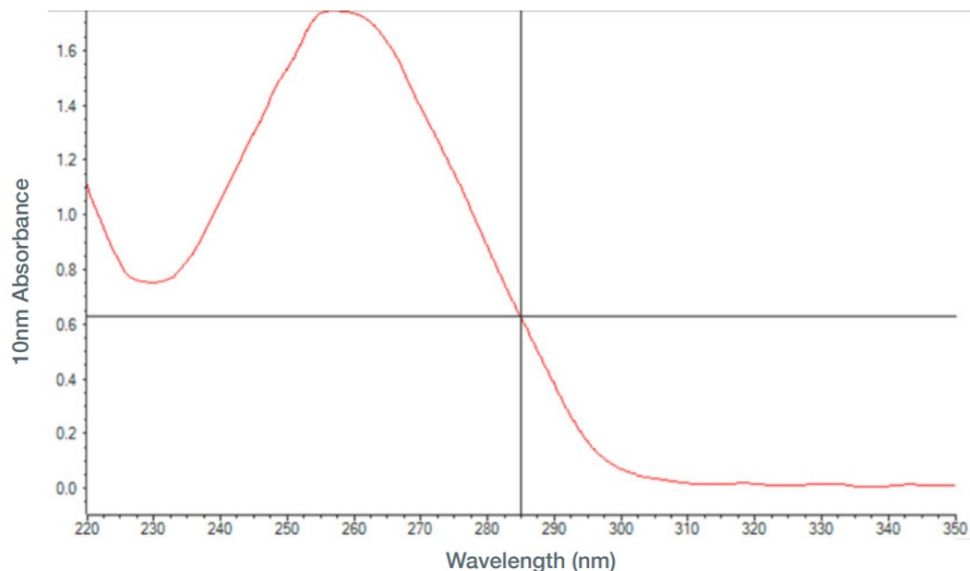
- 1 ml of rabbit blood
- [QIAamp DNA blood Midi kit](#)
- TE buffer (1 mM EDTA, pH 8.0)
- 15 ml Falcon tubes
- Centrifuge capable of taking 15 ml Falcon tubes
- 96-100% ethanol

Method

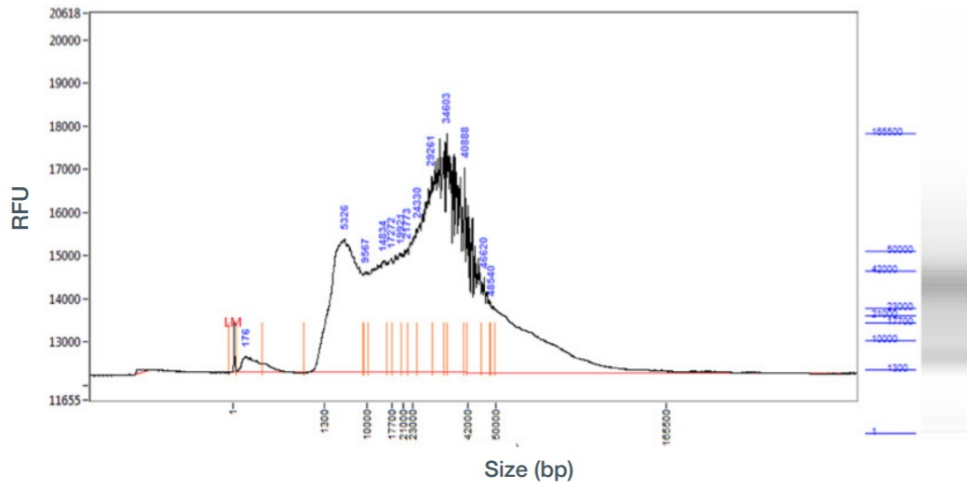
1. Lyse the cells using the reagents and volumes according to the [Qiagen QIAamp DNA blood Midi kit protocol](#) for volumes of blood between 1-2 ml (page 19, steps 1-3).
2. **Critical step:** We have found that lysis for 1 hour at 60°C is more effective than the recommended 10 minute incubation at 70°C (step 4).
3. Purify the lysate according to the protocol (page 20-21, steps 5-11).
4. **Critical step:** To maximize the DNA yield, we recommend adding 100 µl of TE (1 mM EDTA, pH 8.0) to the membrane followed by incubation at 37°C for 10 minutes. Spin the column at 8000 rpm for 2 minutes, and collect the eluted DNA. Repeat the above step twice to give a total elution volume of 300 µl.
5. Take 60 µl of eluate (corresponding to 3 µg of DNA) and perform [aSPRI size selection](#).

Results

- **Yield:** 12-16 µg (before SPRI size selection)
- **OD 260/280:** 1.96 (after SPRI size selection)
- **OD 260/230:** 2.33 (after SPRI size selection)



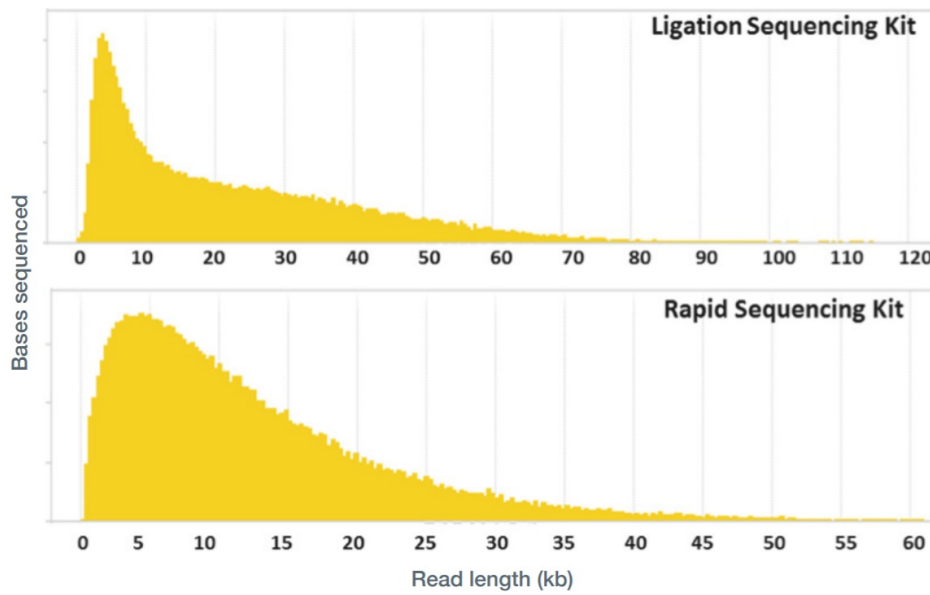
- **Fragment size (FEMTO pulse):**



Sequencing performance

Libraries were prepared using the Ligation Sequencing Kit and Rapid Sequencing Kit.

- Read length profile:



Change log

Version	Change
v1, 27th July 2019	Initial protocol publication
v2, 14th August 2023	Updated protocol page references