

Materials

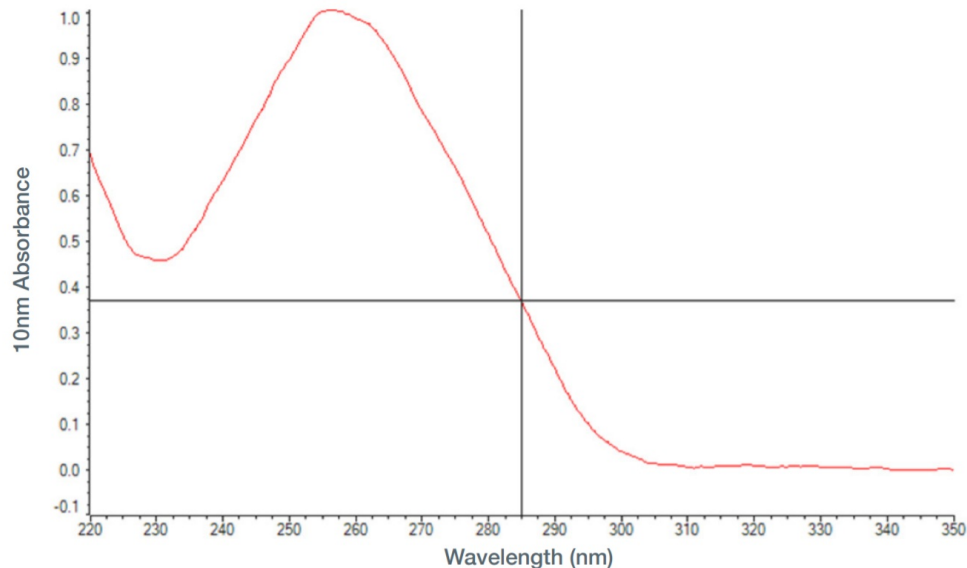
- 1 rat stool pellet
- [QIAamp PowerFecal DNA Kit](#)
- [QIAGEN RNase A](#)
- TE buffer (1 mM EDTA, pH 8.0)
- 2 ml Eppendorf tubes
- 1.5 ml Eppendorf DNA LoBind tubes
- Vortex mixer
- Incubator
- Microfuge

Method

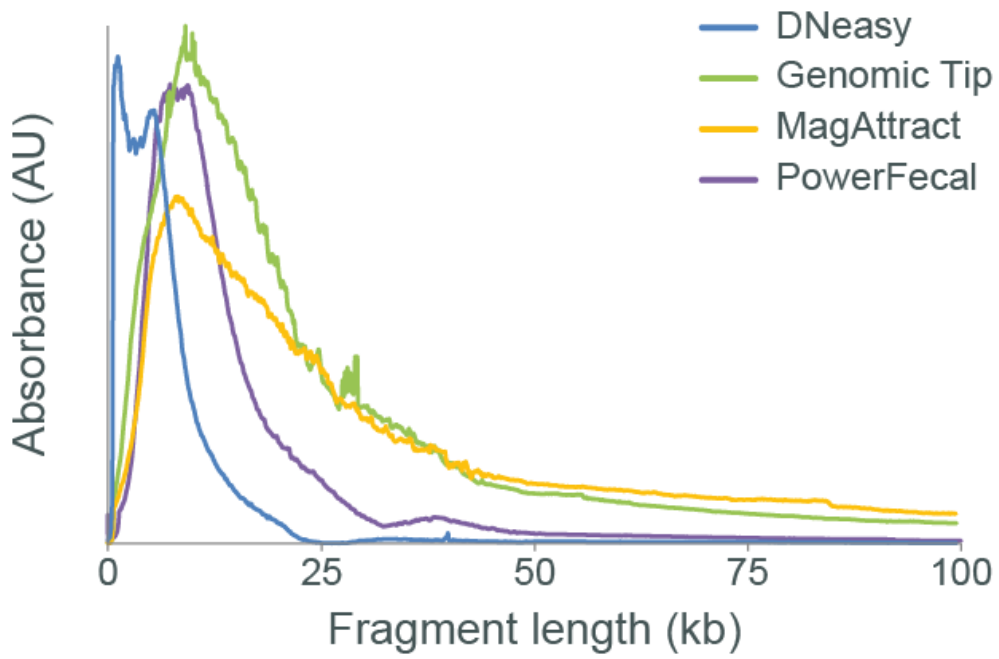
1. Transfer 1 rat stool pellet to a 2 ml Eppendorf tube, and proceed with extraction according to the [QIAamp PowerFecal DNA Kit protocol](#) (page 10, steps 2–18). If no vortex adapter is available, the tubes can be taped to the vortex mixer for the bead-beating step. If using this method, do not overcrowd the tubes, and ensure the content within each tube can be properly mixed.
2. To elute the DNA, add 100 μ l of TE buffer to the centre of the white filter membrane, and incubate at room temperature for 30 minutes. Then, centrifuge at 8000 rpm for 2 minutes.
3. Take \sim 20 μ l of eluate (corresponding to 3 μ g of DNA) and perform [aSPRI size selection](#).

Results

- **Yield:** 22–28 μ g
- **OD 260/280:** 1.92 (after SPRI size selection)
- **OD 260/230:** 2.17 (after SPRI size selection)



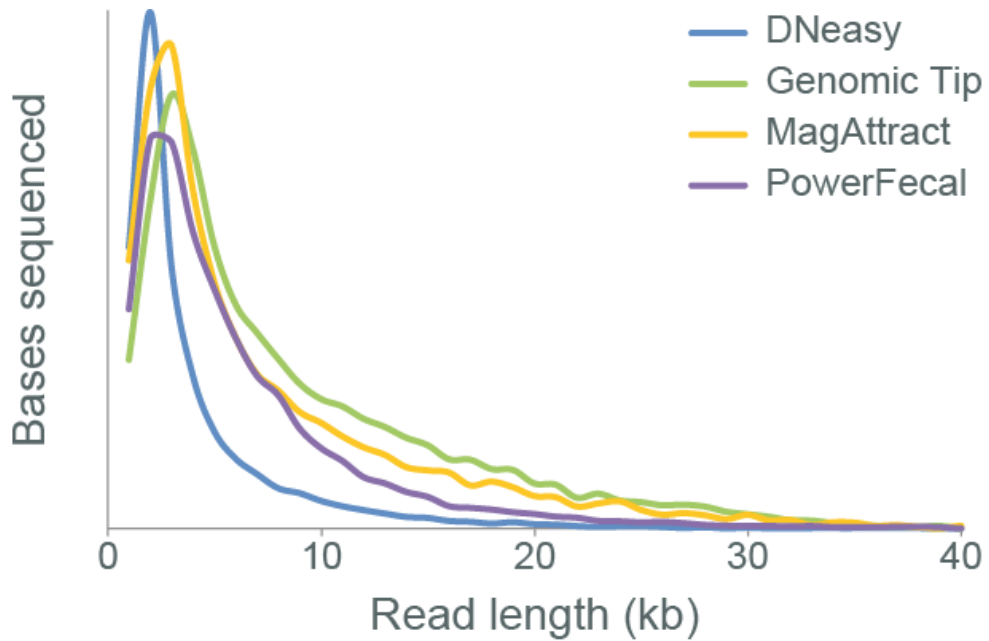
- **Fragment size (FEMTO pulse) after SPRI size selection:**



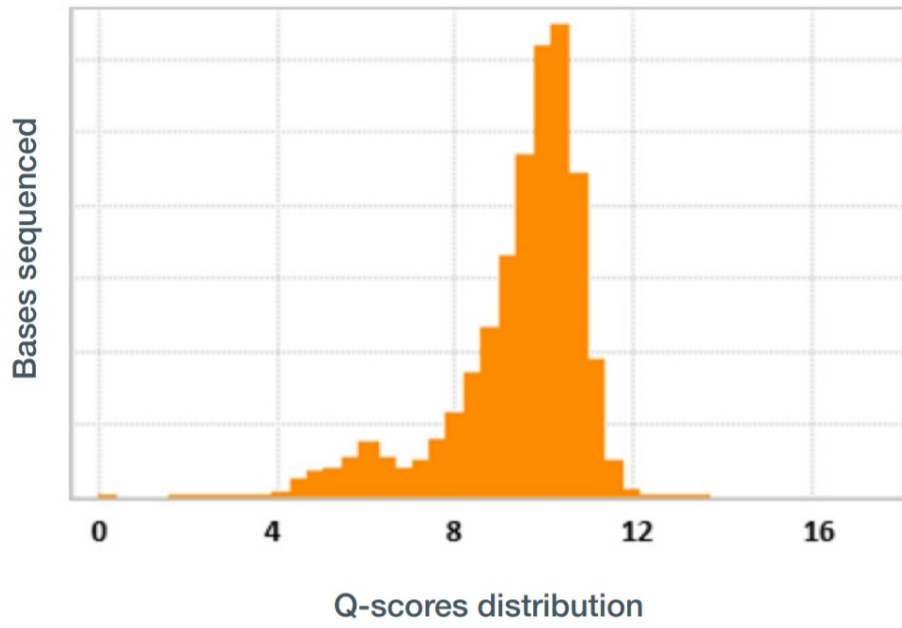
Sequencing performance

Libraries were prepared using the Ligation Sequencing Kit.

- Read length profile:



- Qscore distribution:



- Alignment results:

