



Isolation of Genomic DNA using Fujifilm QuickGene™ DNA Tissue Kit S

To isolate DNA from colonocytes using the Fujifilm Quickgene automated nucleic acid system¹, we recommend using the Fujifilm DNA Tissue Kit S with a modified protocol.

Materials

Fujifilm DNA Tissue Kit S (Catalog #DT-S) includes solutions MDT, EDT, LDT)

PBS, ice-cold

Ethanol, absolute

DNase-free RNase A (optional)

Procedure

1. Begin with 50K Cells, base on the 5-8 μ m count.
2. Centrifuge cells 5min at 900 x g and discard supernatant
3. Resuspend cells in 1 ml PBS. Centrifuge 5 min at 900 x g, discard supernatant.
4. Add MDT: 180 μ l and EDT: 20 μ l
5. Incubate overnight on rotary shaker or water bath at 55°C
6. Centrifuge at top speed for 5min
7. Transfer the supernatant to 1.5 ml micro centrifuge tube
8. (Option) Add RNase A: 20 μ l, mix the solution, flash spin down, leave at Room Temperature for 2min
9. Add LDT (with Ethanol): 420 μ l, mix the solution, flash spin down
10. Transfer lysate into the cartridge of QuickGene system
11. Select "DNA Tissue" mode, Press Start Button
12. Result: Genomic DNA (elution volume 200 μ l)

¹ http://home.fujifilm.com/products/science/nai_product/product.html