Jan 29, 2020

Mouse Genotyping with KAPA Kit in 2 Hours (#KK7302) V.2

Cq Wu[1]

[1]UKY

1 Works for me dx.doi.org/10.17504/protocols.io.bbxnipme

Cq Wu
UKY

ABSTRACT

BioLegend MojoSort™ nanobeads work in commonly used separation columns, based on our internal research as well as validation by external testing by academic labs. This simple protocol consists of following the MojoSort™ protocol to label the cells with **pre-diluted** MojoSort™ reagents and using the columns as indicated by the manufacturer.

Note: Due to the properties of our beads, it may be possible to use far fewer beads and less antibody cocktail that with other commercial suppliers. We recommend a titration to find the best dilution factor. However, as a general rule, dilutions ranging from 1:2 to 1:10 for the antibody cocktail can be used. Dilutions ranging from 1:5 to 1:20 for the Streptavidin Nanobeads can be used. Please contact BioLegend Technical Service (tech@biolegend.com) if further assistance is needed.

DNA Extraction 30m

1 Collect mouse tissues (ear or tail clips) into PCR strips.

2 Make **100 µl** extration buffer mix for each sample.

10x Extraction buffer	10 ul
H2O	88 ul
Extraction Enzyme	2 ul
Total	100 ul

3 Add **100 µl** buffer into each tissue sample and run the reaction as follows:

75 °C **00:15:00**

95 °C **00:05:00**

4 °C **00:00:00**

Tissues are visible or intact after extraction (this is normal).
Vortex DNA extract and spin down before PCR.

PCR 30m

4 Make **20 µl** PCR master mix for each sample.

2x PCR buffer	10 ul
H2O	8 ul
10 uM Primers mix	1 ul
DNA	1 ul
Total	20 ul

5 Run the reaction as follows:

95 °C **00:03:00**

35 cycles

95 °C **00:00:15**

57 °C adjustable **00:00:15**

72 °C **00:00:10 per kb**

35 cycles

4 °C **00:00:00**

Run DNA Gel 30m

6 Take **10 µl** PCR reaction and run DNA gel.