



Oct 06, 2022

Splenocyte isolation from mice

sffschn¹

¹IEO

1	Works for me	8	Share
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ABSTRACT

Simple protocol for isolation of spleenocytes from mouse spleen.

PROTOCOL CITATION

sffschn 2022. Splenocyte isolation from mice. **protocols.io** https://protocols.io/view/splenocyte-isolation-from-mice-chigt4bw

KEYWORDS

Mouse, Organ processing, Spleen

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CREATED

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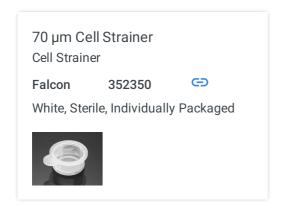
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PROTOCOL INTEGER ID

70952

- 1 Collect spleens in some PBS
- Place spleen on a 70 μm mesh filter ontop of a 50 mL Falcon



- 2.1 max. 2 spleens per filter
- 3 pass through 70 µm mesh filter using a pistol of a 2 mL syringe
- 4 wash with FACS buffer and top up to 50 mL
 - **■50 mL FACS buffer**

EDTA disodium

dihydrate Abblis Catalog #AB1011793

1 mM

5m

5 Spin down for 5 min **© 00:00:00**

3400 x g, 4°C, 00:05:00

Eppendorf™ 5810R Centrifuge Centrifuge

Eppendorf 02-262-8187

187 👄

6 Pour off supernatant



2

7

5m

Add 1 mL of RBC lysis buffer per spleen and incubate for 5 min at RT

- ■1 mL per spleen
- **© 00:05:00**
- **8** Room temperature
- 8 Add a bit of FACS buffer and pass through new 70 µm mesh filter into a new 50 mL Falcon
- 9 Fill up to 50 mL

■50 mL FACS buffer

10 **\$\pi**400 x g, 4°C, 00:05:00

5m

- 11 Pour off supernatnat
- 12 Resuspend in 5 mL of FACS buffer per spleen
 - **■5 mL FACS buffer per spleen**
- 13 Count cells

Neubauer Improved Haemocytometer
Counting Chamber
Counting Chamber
Hawksley AC1000
Void depth: 0.1 mm
Counting Area: 1mm²

⊠ 0.4% Trypan blue solution **Contributed by users**

14 \$\mathref{3}400 x g, 4°C, 00:05:00

5m

- 15 Resuspend cells to obtain a concentration of 1 x 10^8 cells/mL
 - [M]1x10⁸ Mass Percent
- 16 Continue with

⊠ EasySep[™] Mouse NK Cell Isolation Kit **Stemcell**

Technologies Catalog ## 19855

for

isolatoin of primary mouse NK cells.