

## BeaverBeads™ for Cell Isolation

BeaverBeads™ streptavidin can be used to isolate cells from the samples by negative selection. The magnetic beads used are mostly with small diameters. The non-target cells were removed by streptavidin magnetic beads with the help of biotinylated antibodies. Magnetic separators are required in the isolating process.

### Product Advantage

- ▶ **Simple, Fast**  
The target cells can be sorted in 15 minutes
- ▶ **Simple Operation**  
Magnet separator can be used to separate target cells rapidly instead of columns.
- ▶ **High Purity**  
The purity of isolated cells can be above 95%
- ▶ **Acquire Intact Cells**  
Functional cells with high activity, untouched, label-free cells can be acquired.

## Applications

**Case 1 :** Use BeaverBeads™ for Cell Isolation to isolate mouse spleen CD4<sup>+</sup> T cells and CD8<sup>+</sup> T cells, and analyze the purity of isolated T cells.

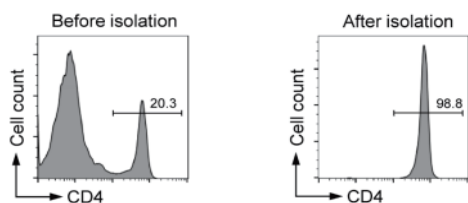


Fig 1. Purity tests of using Beaverbeads for Cell Isolation (negative selection) to isolate CD4<sup>+</sup> T cells

Fig 1 : Use Beaverbeads™ for Cell Isolation (negative selection) to isolate CD4<sup>+</sup> T cells from C57BL/6 mouse spleen. The cells before and after isolation were stained with anti-mouse CD4 antibody (Clone NO. GK1.5), which were FITC marked, then analyzed by flow cytometry. The purity of CD4<sup>+</sup> T cells before and after isolation were 20.3% and 98.8% respectively.

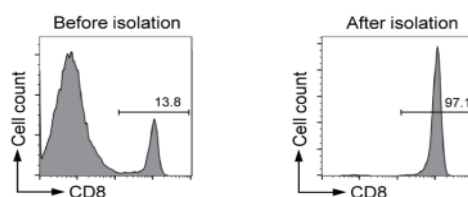


Fig 2. Purity tests of using Beaverbeads for Cell Isolation (negative selection) to isolate CD8<sup>+</sup> T cells

Fig 2: Use Beaverbeads™ for Cell Isolation (negative selection) to isolate CD8<sup>+</sup> T cells from C57BL / 6 mouse spleen. The cells before and after isolation were stained with anti-mouse CD8 antibody (Clone NO.53-6.7), which were FITC marked, analyzed by flow cytometry. The purity of CD8<sup>+</sup> T cells before and after isolation were 13.8% and 97.1% respectively.

**Case 2 :** Apply BeaverBeads™ for Cell Isolation to purity analysis and comparison of beads from other brands

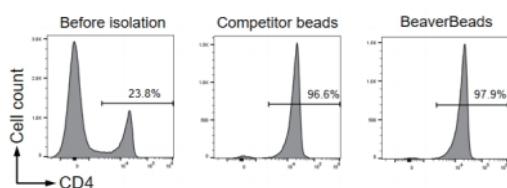


Fig 3. Purity tests of using Beaverbeads for Cell Isolation (negative selection) and beads from other brands to isolate CD4<sup>+</sup> T cells

Fig 3: Use Beaverbeads™ for Cell Isolation (negative selection) to isolate mouse spleen CD4<sup>+</sup> T cells. The purity of CD4<sup>+</sup> T cells after isolation was 97.9% while the purity rate of the beads from other brands was 96.6%. So the purity of the cells sorted are almost the same.

**Case 3 :** Apply BeaverBeads™ for Cell Isolation to cell viability analysis and comparison of beads from other brands

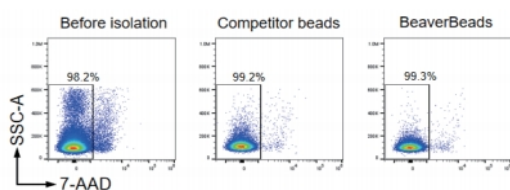


Fig 4. Cell viability tests of using Beaverbeads for Cell Isolation (negative selection) and beads from other brands to isolate CD4<sup>+</sup> T cells

Fig 4: Use Beaverbeads™ for Cell Isolation (negative selection) to isolate mouse spleen CD4<sup>+</sup> T cells. The cells before and after isolated were stained with 7-AAD, and then analyzed by flow cytometry. The rate of living cells before isolation, after isolation with Beaverbeads™ for Cell Isolation and after isolation with the beads from other brands was 98.2%, 99.3% and 99.2%, respectively. Thus, the cell viability of the cells are almost the same.

## Product List

Cat.No.	Product Name	Size
22308-1	BeaverBeads™ Streptavidin	1 mL, 10 mg/mL, 300nm
22308-10		10 mL, 10 mg/mL, 300nm
22308-100		100 mL, 10 mg/mL, 300nm
22307-1		1 mL, 10 mg/mL, 1µm
22307-10		10 mL, 10 mg/mL, 1µm
22307-100	100 mL, 10 mg/mL, 1µm	



more information

Focus on International Official Website

**BEAVER Biomedical Engineering Co.,Ltd.**

Add:NE36 Nanopolis Suzhou, Suzhou Industrial Park ,China

Call: +86-0512-85187639

Fax: +86-0512-85187635

E-mail: beaver@beaverbio.com

Web: en.beaverbio.com

Agent information