

MaxSortin™ CD138 Beads

Product Name

English Name: MaxSortin™ CD138 beads

Packaging Specifications

Filling Volume/Catalogue Number: 1mL / TL811-2000

Product Performance

Reactivity Species: Human

Endotoxin: < 2 EU/mL

Appearance: Brown liquid

Intended Use

MaxSortin™ CD138 sorting magnetic beads can be used for sorting CD138⁺ cells. By conjugating anti-human CD138 monoclonal antibody onto the magnetic beads, incubating them with cells, and then performing magnetic separation, the sorting of CD138⁺ cells is achieved.

Instructions for Use

Experimental Procedure:

- 1.1 Resuspend the PBMC mixed cell sample containing about 10% U266 in PBS buffer containing 1% HSA. Take a sample for counting and transfer 1×10^7 cells into a 1.5 mL Ep tube. Centrifuge at 1500 rpm for 5 minutes.
- 1.2 Discard the supernatant, resuspend the cells with 90 μ L of MaxSortin™ cell sorting buffer (MS-BF) solution, add 10 μ L of MaxSortin™ CD138 sorting magnetic beads, mix well, and then incubate in a 2 - 8°C refrigerator for 15 minutes.
- 1.3 Place the MaxSortin™ L-Type Separation Column (MS-CL01) on the MACS sorter (130-090-976) and rinse it twice with 1 mL of cell sorting buffer.
- 1.4 Take the incubated sample out of the 2 - 8°C refrigerator, add 1 mL of cell sorting buffer, centrifuge at 1500 rpm for 5 minutes, and discard the supernatant.
- 1.5 Resuspend the sample with 1 mL of cell sorting buffer and add it to the L-Type separation column. After it flows out naturally, add cell sorting buffer twice, 3 mL each time, to wash the cells adhering to the column.
- 1.6 After all the cell sorting buffer has flowed out, remove the L-Type separation column from the MACS sorter and place it in a 15 mL centrifuge tube (make a mark). Add 3 mL of cell sorting buffer to the L-Type separation column and expel the liquid directly using the piston. The collected cells are CD138⁺ cells.
- 1.7 Count the cells and perform flow cytometry testing.

Precautions

1. The magnetic beads need to be thoroughly mixed when incubated with cells to improve the sorting efficiency.

2. When the proportion of CD138⁺ cells is below 3%, it is recommended to add 5 µL of magnetic beads.
When the proportion of CD138⁺ cells is above 3%, it is recommended to add 10 µL of magnetic beads.
3. This product cannot be used for clinical treatment.

Storage Conditions

2 - 8° C.

Expiration Date

6 months

References

1. Gao L, Liu Q, Shi Y, et al. Application of CD138 Immunomagnetic Sorting Myeloma Cells Combined with Fluorescence in Situ Hybridization for Detecting Cytogenetic Abnormalities of Multiple Myeloma. Zhongguo Shi Yan Xue Ye Xue Za Zhi. 2017 Jun;25(3):807-812.
2. Mei Jiangang, Li Hanqing, Cao Hongqin, et al. Application Value of CD138 Magnetic Bead Sorting Combined with Interphase Fluorescence in Situ Hybridization in Genetic Diagnosis of Plasma Cell Disorders. Chinese Journal of Experimental Hematology. 2016, 024(005):1437-1442