High Efficiency Debris Removal Kit

1. Product Information

Product Name	Product Model	Product Specification
High Efficiency Debris Removal Kit	DHDR -5006	50 T

2. Product Description

The high efficiency debris removal kit is a downstream application of the enzymatic digestion kit, which is used to remove debris from single cell suspension. Thus, a cell suspension with a clean background and less debris was obtained. The high efficiency debris removal kit has been developed for efficient removal of cell debris of single cell suspensions from adult mouse and rat brain tissue, adult mouse heart tissue, adult mouse liver tissue and other kinds of tissues. The prepared single cells are used in downstream primary cell culture, flow analysis, single-cell sequencing and other requirements.

3. Product ingredients

2 bottles of 50 mL high efficiency debris removal reagent (solution)

4. Test capacity

For 50 applications with 1g of tissue per application.

5. Transport and storage

Transport in 2 ~ 8 °C ice bags;
Store at 2 ~ 8 °C, with a validity period of 12 months.

6. Reagent and Instrument Requirements

D-PBS or PBS solution

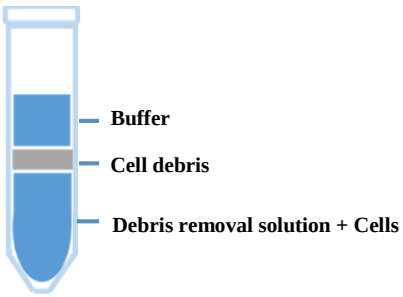
7. How to Use

1) The weight range for processing is 50 mg ~ 1000 mg, refer to the following table for debris removal processing:

Tissue weight	D-PBS or PBS	Debris removal solution	Overlay (D-PBS or PBS)	Reagent tube
50 ~ 100 mg	1550 μL	450 μL	2 mL	5 mL or 15 mL
101 ~ 500 mg	3100 μL	900 μL	4 mL	15 mL
501 ~ 1000 mg	6200 μL	1800 μL	4 mL	15 mL

2) According to the tissue weight range, add the corresponding D-PBS or PBS to resuspend the cell pellet from tissues (Aspirate as much supernatant as possible and can not be shaken and resuspended)), add the corresponding volume of debris efficient removal reagent (use a 1mL pipette gently pipet 10 times to mix with the cell suspension) and the upper D-PBS or PBS volume (slowly add pre-cooled D-PBS or PBS along the wall of the centrifuge tube).

3) Then, centrifuge the cell suspension at 3000x g at 4 °C, with a acceleration speed of 5 and a brake speed of 3 for 10 minutes. After centrifugation, the solution is separated into three layers(As shown below), and the top two layers are completely discarded, collect the lower layer of cells, add cold PBS solution to 10 mL (15 mL centrifuge tube) or 5 mL (5 mL centrifuge tube), invert up and down 3 times (do not shake and resuspend), centrifuge the cell suspension at 1000x g for 10 minutes and discard the supernatant thoroughly.



4) Resuspend the cells in the appropriate buffer or medium by pipetting slowly up and down for subsequent experiments.

8. Precautions

1) This kit is valid for 12 months, and RWD shall not guarantee the validity of expired products.
2) When adding the upper layer buffer, the buffer needs to be pre-cooled in advance and slowly added to the top of the cell suspension along the wall of the centrifuge tube.
3) In the centrifugation step of removing debris, the speed of acceleration and brake is recommended to be 5 up and 3 down, mainly applicable to Eppendorf and Thermo Fisher centrifuges. Other brands of centrifuges can refer to this speed for pre-experiment to determine a more appropriate speed of acceleration and deceleration.

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