

Single Cell Suspension Dissociator



Effortlessly begin your single-cell research journey!

RWD single cell suspension dissociator gently and rapidly processes tissues into highly viable and uniform single-cell suspensions, single-nucleus suspensions, or tissue homogenates. Equipped with standardized program control, an independent multi-channel processing system, and self-developed tissue-specific enzymatic digestion kits, the dissociator significantly enhances cell viability, yield, and preserves antigen epitope integrity. It excels in improving experimental efficiency and reproducibility, making it ideal for a wide range of applications including cancer research, immunology, neuroscience, and organoid culture.



Product Principle

CONTRIBUTE WISDOM AND STRENGTH TO THE IMPROVEMENT OF QUALITY



Mechanical
Dissociation



Enzymatic
Digestion



Product Characteristics

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High quality

- ✓ 90% High Viability & High Yield Single-Cell Suspensions
- ✓ Low Clumping & Minimal Debris
- ✓ Gentle Dissociation Preserves Cell Surface Antigens



High efficiency

- ✓ Built-in multiple standardized protocols with 3 program templates for user-defined processing
- ✓ Equipped with dedicated accessories and matched reagent kits
- ✓ Precise temperature control at 37°C with accurate speed regulation (0-4000 rpm)



Standardization

- ✓ 15-30 Minute Efficient Tissue Dissociation
- ✓ Multi-Channel Independent Operation . One-click start with visual progress tracking for intuitive operation
- ✓ Unique Count-Up Timer. Precisely monitors sample processing duration



Multi-applications

- ✓ Versatile processing for single cells, nuclei, homogenates or perfusion
- ✓ Wide tissue compatibility with specialized digestion kits
- ✓ Upgradeable system via USB connectivity



Workflow

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Take samples of tissues



Pretreatment



Mix tissues and enzymes



Install processing tubes



Install Heating Jackets



Invoke procedures



Operating



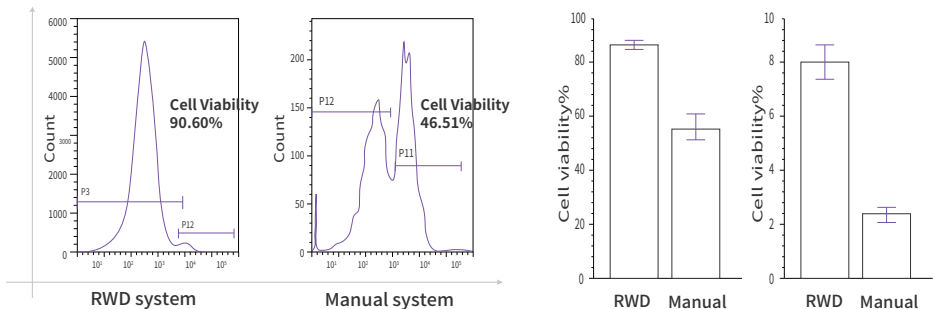
Collect single cell



Data presentation

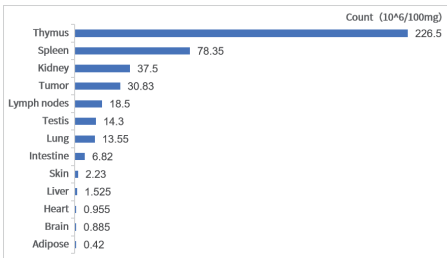
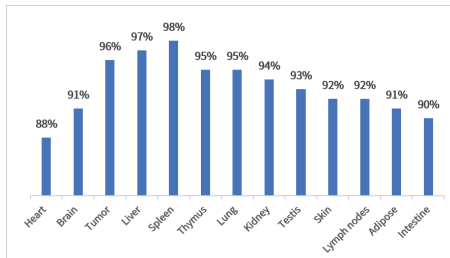
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RWD single cell suspension dissociator—Superior to manual



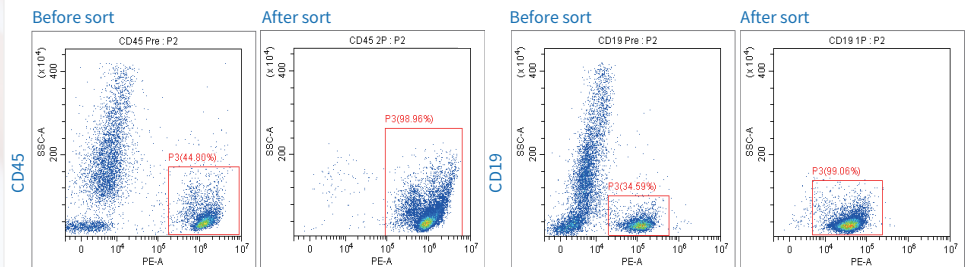
RWD single cell suspension dissociator demonstrated superior cell viability and yield compared to manual dissociation when processing mouse lung cancer tissue (LLC).

RWD single cell suspension dissociator—High quality



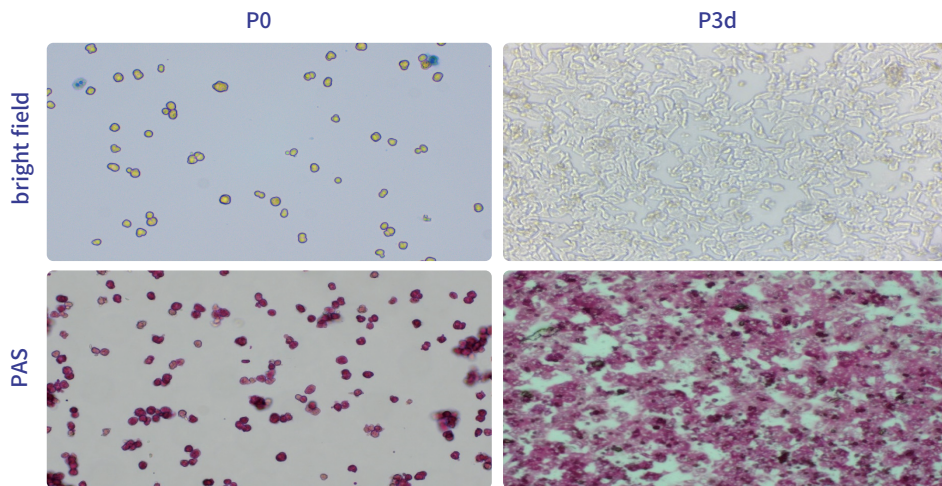
RWD single cell suspension dissociator dissociated a variety of mouse tissues, which showed high cell viability and yield.

RWD single cell suspension dissociator—Magnetic beads cell sorting



RWD single cell suspension dissociator was used to dissociate mouse intestine tissue, followed by CD45+ and CD19+ cell sorting. Both populations demonstrated high purity in subsequent analyses.

RWD single cell suspension dissociator—Primary cell culture



RWD single cell suspension dissociator effectively dissociated mouse liver tissue, with microscopic examination showing minimal cell aggregation and debris. Subsequent PAS staining for glycogen demonstrated excellent cell adhesion and growth status after 3 days in culture.

Product Application

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Single cell sequencing



Flow cytometry



Magnetic beads cell sorting



Primary cell culture



Organoid culture



Experimental medicines testing

RWD offers an integrated 'Single-Cell Preparation to Cell Sorting' solution, enabling rapid isolation of target cells and efficient initiation of downstream research.



Magnetic Cell Separation System-Column based



Magnetic Cell Separation System-Column free

*For details, please consult your regional sales engineer

Technical Parameters

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	GTD-2	GTD-4	GTD-8
Channels	2	4	8
Weight	9 kg	10.3 kg	18 kg
Dimensions (W*D*H)	215*380*190 mm	215*380*190 mm	417*394*196 mm
Screen	7 inches, touch screen		
Temperature	37°C		
Speed	0~4000rpm(Clockwise and counterclockwise)		
Sample Volume	20~4000mg		
Buffer Volume	0.3~10mL		
User Programs	Default programs+custom programs+500 storable programs		

Consumables

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Enzymatic Digestion Kits

- Optimized enzymatic digestion protocols ensure high sample viability for reliable downstream experiments.
- Compatible with diverse species (mouse, rat, human) and over 100 tissue types.
- Effective for challenging tissues (tumors, brain, skin, intestine, fat, etc.).



Heating Jacket

- Stable and accurate temperature (37°C)
- Temperature fluctuation range of $\pm 0.5^{\circ}\text{C}$



*Not sold in the U.S.

Tissue processing tube

- Individually packaged and ethylene oxide (EO) sterilized for safety.
- Sample volume: 20-4000mg
- Buffer volume: 0.3-10mL



Order Information

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Cat. No.	Product Description	Specification
GTD-2	Single Cell Suspension Dissociator (two channels)	2 channels
GTD-4	Single Cell Suspension Dissociator (four channels)	4 channels
GTD-8	Single Cell Suspension Dissociator (eight channels)	8 channels
SCT-25	Tissue Processing Tube	25 pcs/box
SCT-100	Tissue Processing Tube	100 pcs/box
HJ-400	Heating Jacket	4 pcs/box

Cat. No.	Product Description	Specification
DHTE-5001	High Activity Tumor Tissue Enzymatic Digestion Kit (Mouse)	50T
DHNBE-5002	High Activity Neonatal Brain Enzymatic Digestion Kit (Mouse and Rat)	50T
DHABE-5003	High Activity Adult Brain Enzymatic Digestion Kit (Mouse and Rat)	50T
DHGTP-5004	High Activity General Tissue Enzymatic Digestion Kit II	50T
DHTEH-2505	High Activity Tumor Tissue Enzymatic Digestion Kit (Human)	25T
DHDR-5006	High Efficiency Debris Removal Kit	50T
DHIE-5007	High Activity Intestine Tissue Enzymatic Digestion Kit (Mouse)	50T
DHBTE-2508	High Activity Brain Tumor Enzymatic Digestion Kit	25T
DHWSE-2509	High Activity Whole Skin Enzymatic Digestion Kit (Mouse)	25T
DHAE-5010	High Activity Adipose Tissue Enzymatic Digestion Kit (Mouse and Rat)	50T
DHME-5012	High Activity Muscle Tissue Enzymatic Digestion Kit (Mouse and Rat)	50T
DHNE-2511	High efficiency nuclei extraction kit	25T
DHHE-2515	High Activity Hepatocyte Extraction Kit (Mouse and Rat)	15T
DHUTE-2516	High Activity Umbilical Cord Enzymatic Digestion Kit (Human)	25T
DHFTE-2517	High Activity FFPE Tissue Enzymatic Digestion Kit	25T
DHNCE-2518	Mouse And Rat Neonatal Heart Dissociation Kit	25T

RWD Life Science Co.,Ltd

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