



Tissue Dissociator

Creating a Complete Solution for Tissue to Single-Cell and Related Applications



TISSUE DISSOCIATOR

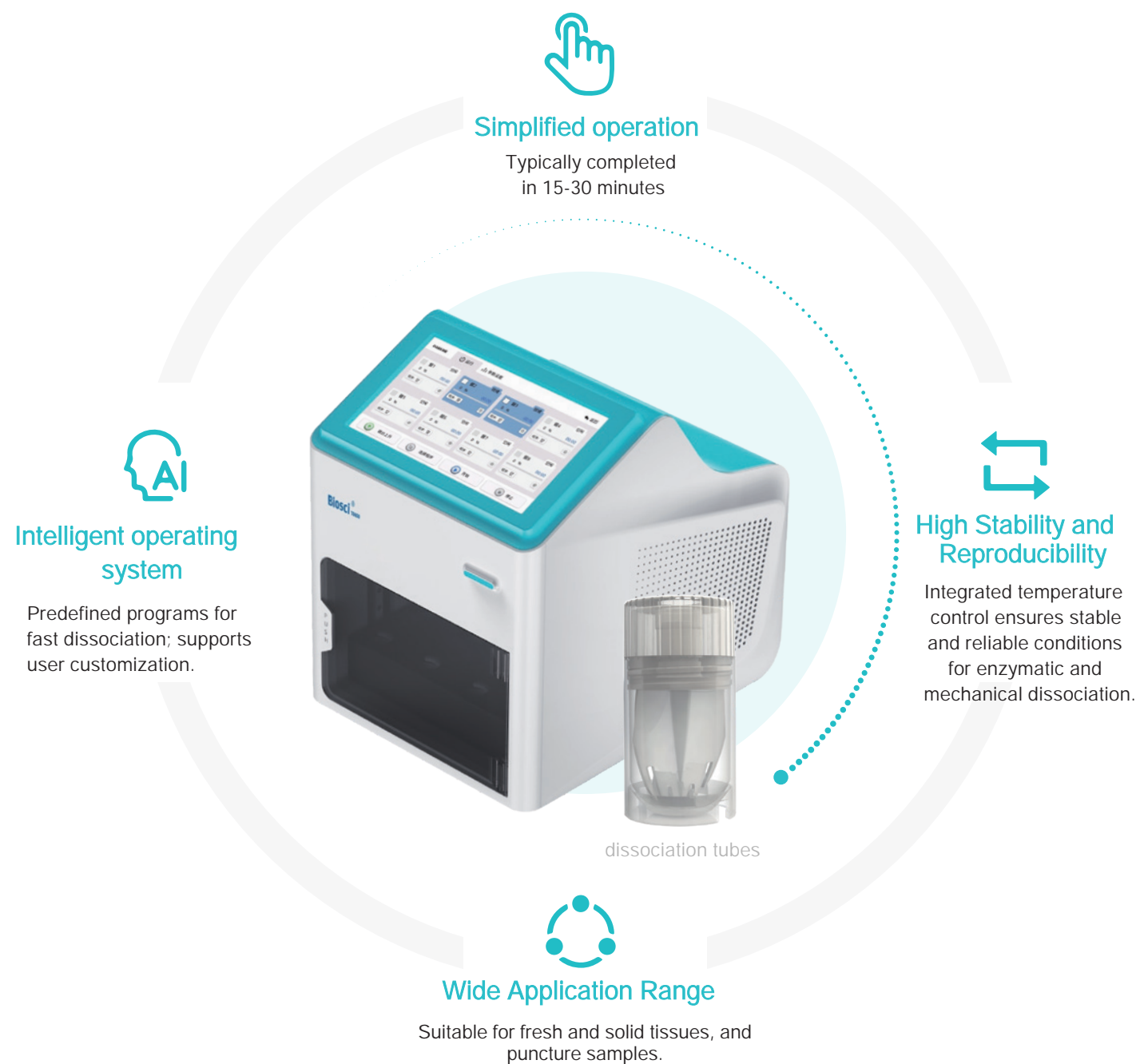


DAKEWE BIOTECH CO.,LTD.

Tel: +86-755-26410427
Email: equipment@dakewe.com
Website: www.dakewe.com

Technical Principle

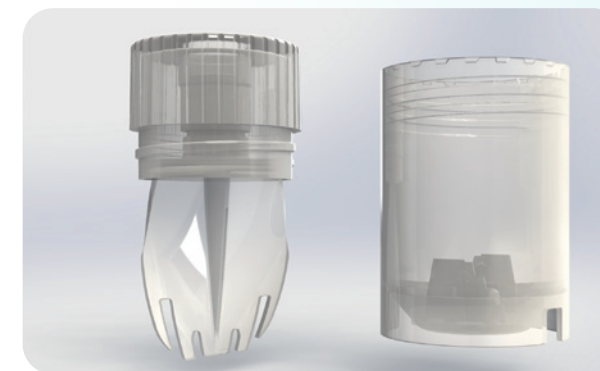
Biosci® Tissue Dissociator utilizes a combination of mechanical force and enzymatic digestion. The instrument is equipped with a precise digital parameter mode regulation system and is compatible with disposable preparation kits. It can automatically and conveniently dissociate tissues to produce high-viability and high-yield single-cell suspensions. It is mainly used in primary cell culture, flow cytometry analysis & sorting, organoid culture, single-cell sequencing, and other fields.



Workflow

NO.1

Open the dissociation tube,
add the dissociation solution and tissue



Loading
Program Setup

NO.2

NO.3

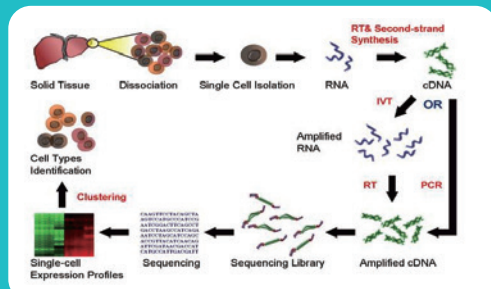
Completion,
Sample Collection



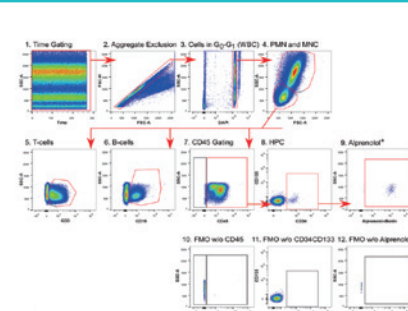


Market Applications

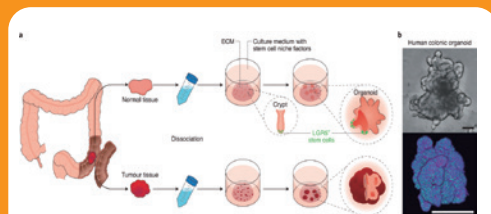
Single-Cell Sequencing



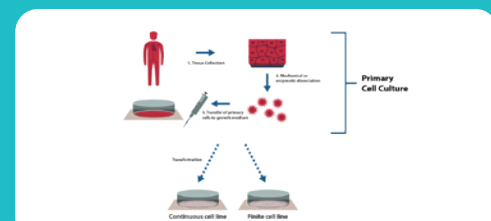
Flow Cytometry Analysis & Sorting



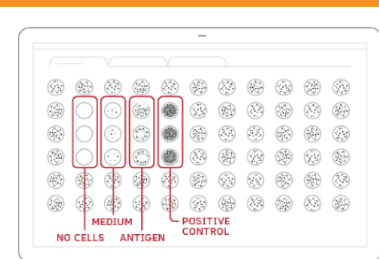
Organoid Culture



Primary Cell Culture

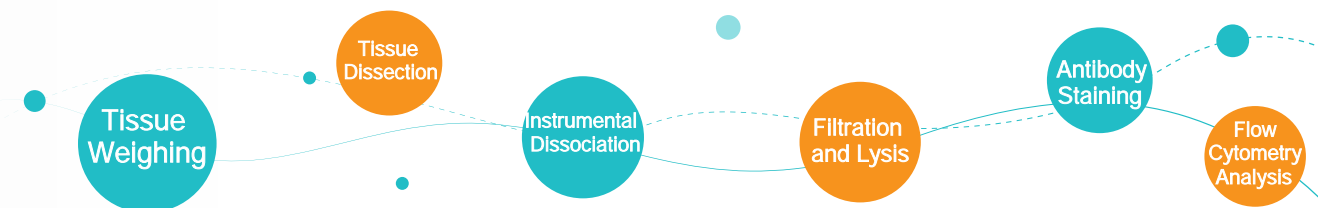


ELISPOT & Fluorospot assay



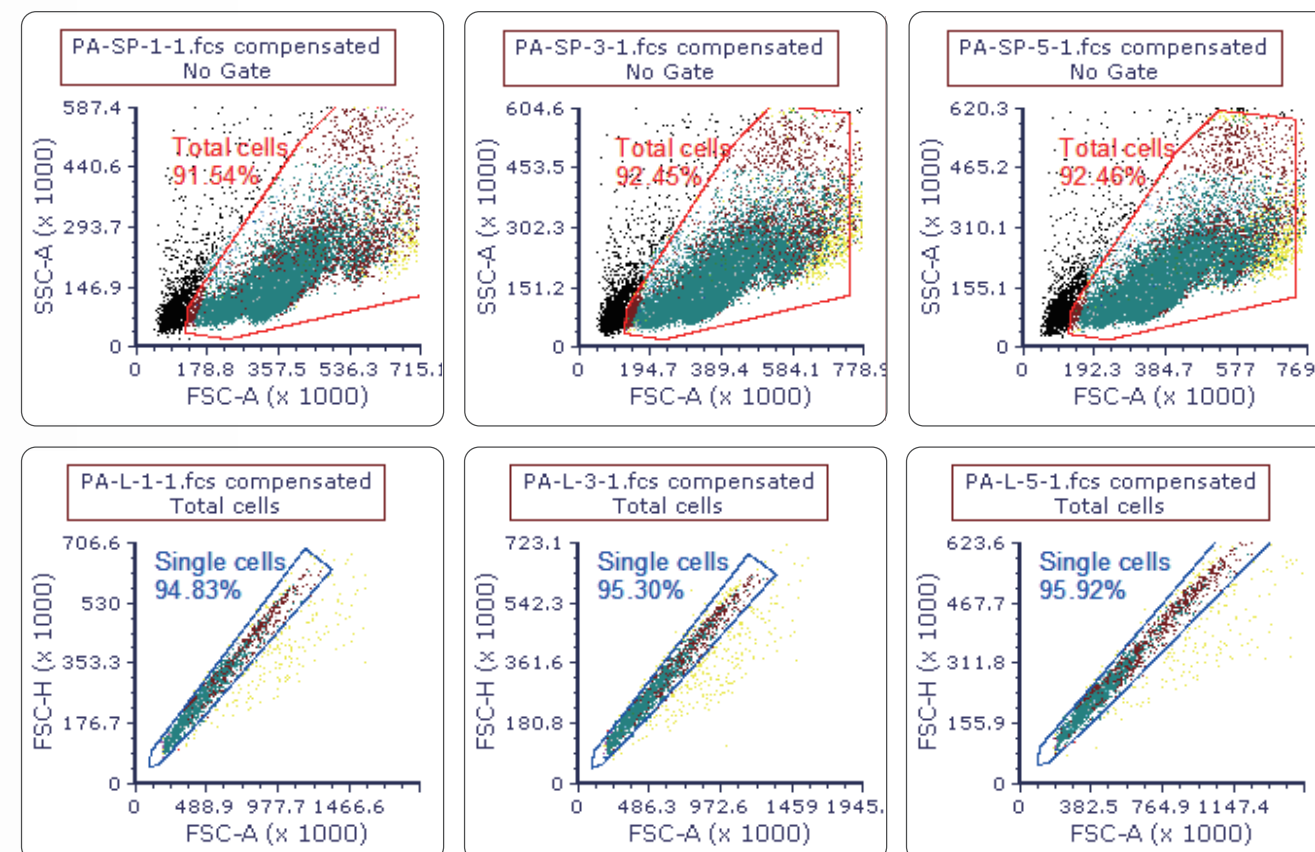
Application Cases

Mouse Spleen Single-Cell Preparation for Flow Cytometry



Three mouse spleen samples were processed using the above protocol in ~15 min and analyzed for CD45+ cells via flow cytometry.

Sample number	Cell yield (cells/mg)	Cell viability	CD45+ Ratio
S1	2.3×10^6	95.35%	99.45%
S2	3.1×10^6	94.55%	99.45%
S3	2.95×10^6	95.36%	98.89%



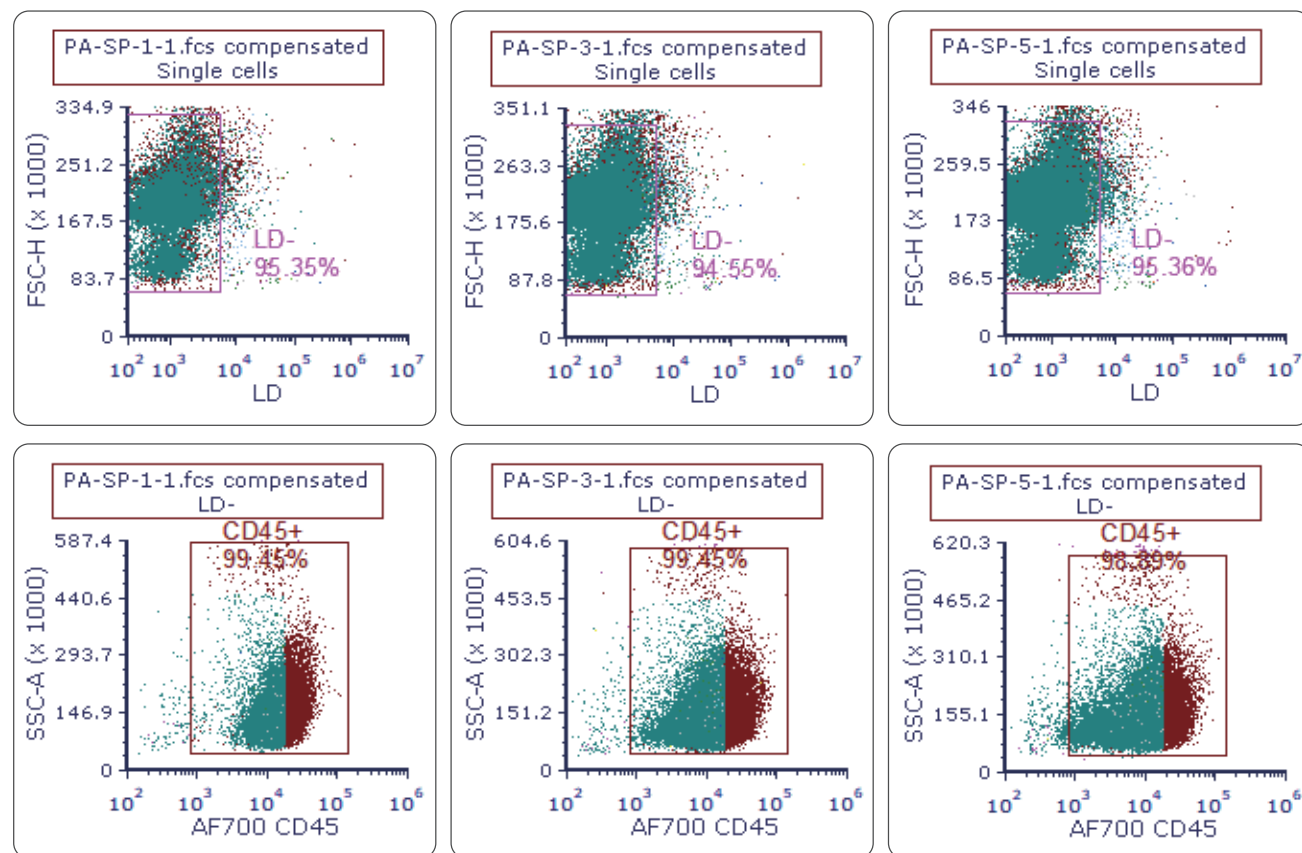


Figure 1: Flow Cytometry Detection Map of Mouse Spleen Tissue Single-Cell Preparation

► Mouse spleen samples can easily yield highyield and highviability target single cells!

● Mouse lung Single-Cell Preparation for Flow Cytometry

Three mouse lung samples were processed using the above protocol in ~40 min and analyzed for CD45+ cells via flow cytometry.

Sample number	Cell yield (cells/mg)	Cell viability	CD45+ Ratio
L1	1.35×10^5	84.25%	87.85%
L2	1.8×10^5	87.03%	90.57%
L3	1.7×10^5	86.44%	92.98%

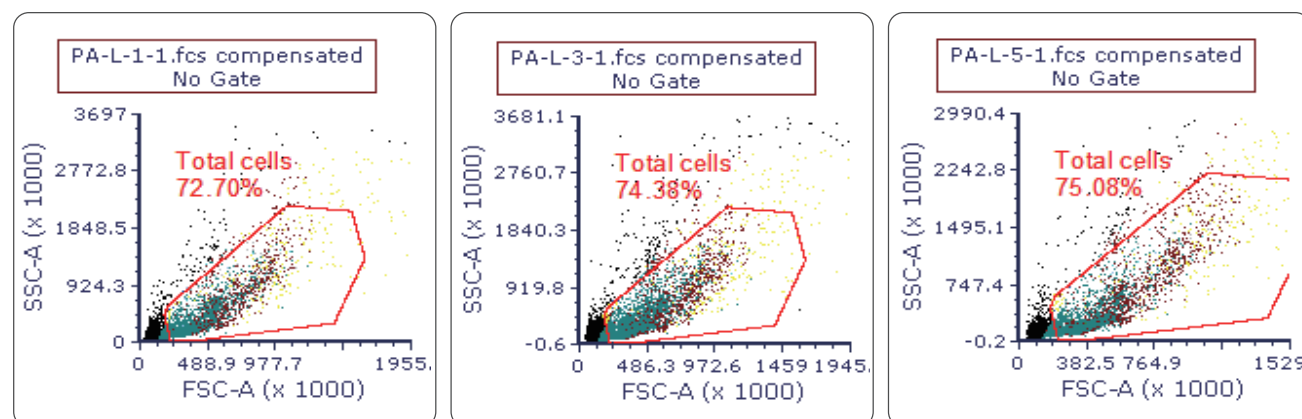


Figure 2: Flow Cytometry Detection Map of Mouse LungTissue Single-Cell Preparation

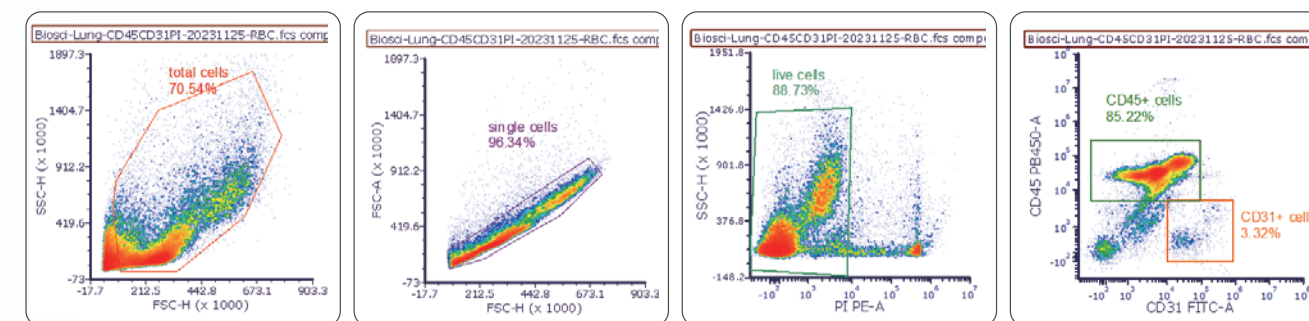


Figure 3: Mouse LungTissue Flow Cytometry Detection (CD45 and CD31)

► Cells dissociated from tissue by Biosci can identify a CD45-CD31+ cell population (vascular endothelial cell population), accounting for approximately 3.32%.

Promotion of complete solutions for laborator projects



Tissue collection

Single-cell suspension preparation

Cell filtration



Applications for Mouse Spleen Samples in ELISpot

ELISpot/FluoroSpot kits  DAKWE



Flow Cytometry Analysis & Sorting Applications

CytoPeak Flow Cytometer

3 laser 14 color

Scientific Research Instrument



Organoid Culture Technology and Monitoring

Primary Cell Culture



Instrument Specifications

Throughput

TD 200: 2 channelsTD 800: 8 channels

Tissue Processing Capacity

10-4150mg;
applicable to clinical puncture samples

Rotation Speed

30-300rpm

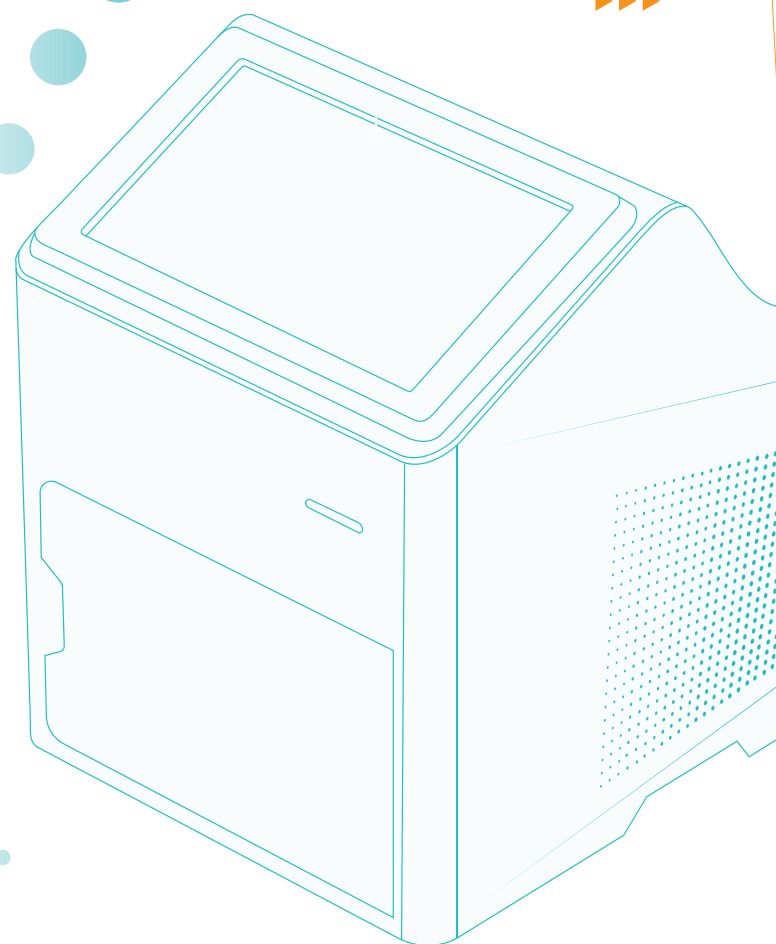
Operation Modes

Single/Multi-Speed

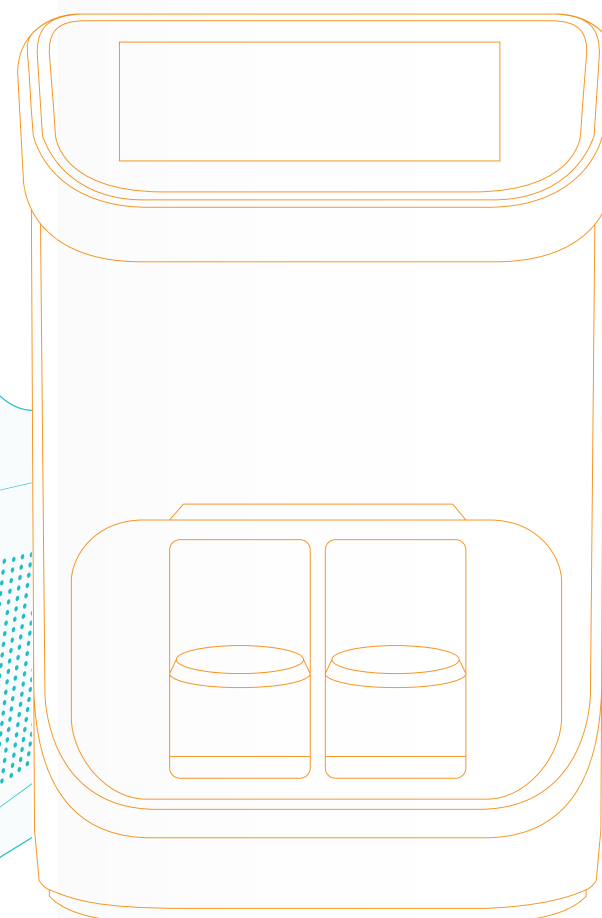
Parameter Mode Storage

90 types, including recommended
parameters and user-defined parameters

Biosci TD 200
▶▶▶



◀◀◀
Biosci TD 800



Connectivity

USB for Software Updates

DisposableDissociation Tubes

Buffer

Universal Dissociation Buffer

Rotor Design

Low-Density Tissue-Optimized
Positive Pressure System

Environmental Conditions

Temperature: 10-35°C
Humidity: 10-80% RH (non-condensing)

Temperature Control

Built-in 37°C Heating
(No External Devices Required)



If you have a trial requirement, please contact
us. Tel: +86-755-26410427