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Singleron PythoN[®] Tissue Dissociation System

Low Input, High Yield, High Viability, Suitable for Biopsies



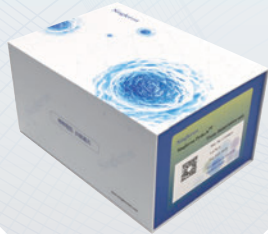
Singleron Biotechnologies

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The Singleron PythoN® Automated Tissue Dissociation System combines mechanical and enzymatic dissociation. The streamlined workflow quickly dissociates the tissue into high-quality single-cell suspension. Equipped with broad-spectrum sCellLive® Tissue Dissociation Mix and disposable Singleron PythoN® Dissociation Units, the Singleron PythoN® Tissue Dissociator can automatically process tissues to obtain highly viable and high-quality single-cell suspensions. The precise digital controlling module enables a quick exploration of the best dissociation conditions for a specific tissue type.



sCellLive® Tissue Dissociation Mix



Singleron PythoN® Tissue Dissociation System



Singleron PythoN® Dissociation Unit

✓ **Effective Dissociation**

Mechanical + enzymatic dissociation

✓ **Temperature controlled**

37°C thermostatic incubation

✓ **High Throughput**

8 channels

✓ **Fast**


15 min workflow

✓ **Flexibe Programs**

50 programs can be stored

✓ **Broad Range of Input Amount**

10~4000mg

 **Product advantages**

Efficient



8 samples in parallel, 15 min workflow
Heating, mechanical dissociation and enzymatic reaction in one step

Flexible



Suitable for a broad range of tissue types
Suitable for sample sizes starting from 10 mg

Convenient



Complete workflow, touch screen and start
No shredding required for 100mg+ samples

Intelligent



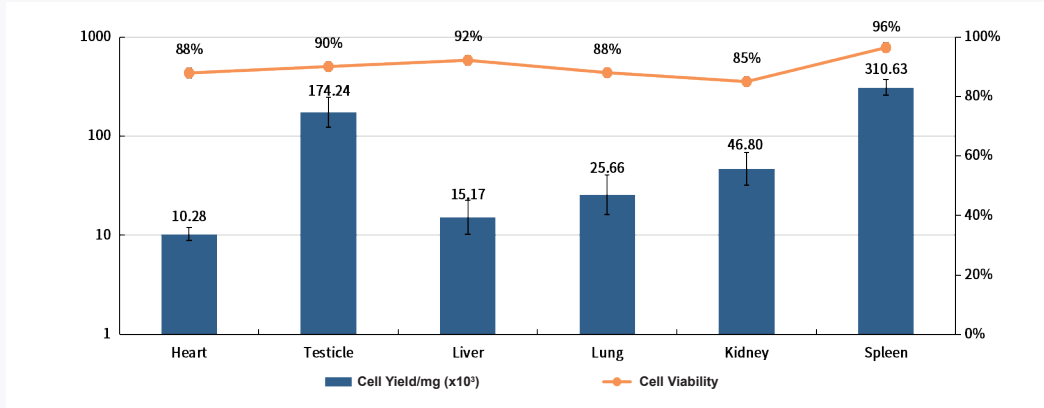
Simple interface, easy to operate
Built-in preset programs, adjustable and storable

An efficient, high-quality, convenient and intelligent tissue dissociation system is indispensable for the single cell analysis. The Singleron PythoN® Tissue Dissociator can provide single-cell suspensions with high viability and high yield, enabling multi- omics researches, especially for clinical and translational studies.

DATA DISPLAY

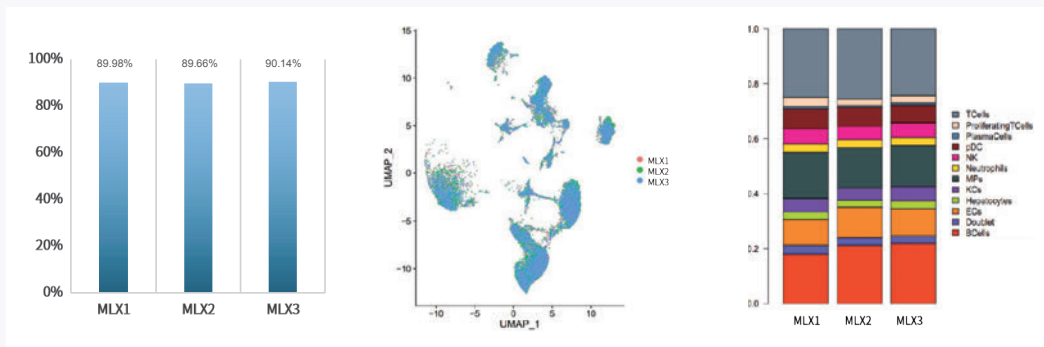
Demo Data

High cell viability and high yield



Singleron Python[®] was used to dissociate murine heart, testicle, liver, lung, kidney and spleen tissues, which results in high-quality single cell suspensions with high cell viability and cell yield.

High reproducibility



Murine liver tissues were processed in triplicates using Singleron Python[®]. Single cell suspensions with >85% cell activity were obtained. Cell clustering and cell type ratios were consistent across the three replicates, showing the high stability and reproducibility of the Singleron Python[®] Tissue Dissociator.

Work with low input samples - suited for biopsies

Tissue weight (mg)	Cell viability	Cell yield (Cells/mg)
20	88.83%	76,000
39	92.51%	48,720

Using Singleron Python[®] to process 20 mg and 39 mg of mouse lung tissue, cell viability and cell yield are maintained at a high level in the final single-cell suspension.

Singleron PythoN® - Instrument Parameters

Model	SGR-TDAp10
Catalog number	MD1101001
Voltage	100 - 240 VAC
Power	200 W
Frequency	50/60 Hz
Operation Mode	Touch Screen
Instrument Size	Length 365 mm, Width 325 mm, Height 360 mm
Instrument Weight	10 kg
Operating Temperature	10-35 °C
Relative Humidity	10-80% Relative Humidity (no condensation)
Air Pressure	700-1060 hpa

Singleron PythoN® - Ordering Information

Product Name	Model	Catalog number
Singleron PythoN® Tissue Dissociator	SGR-TDAp10	MD1101001

Related Consumables - Ordering Information

Kit Name	Singleron PythoN® Tissue Dissociation Kit	
Catalog number	11300602	
Component	sCellLive® Dissociation Mix	Singleron PythoN® Dissociation Units
Specification	24RXNs	24pcs/box
Package	4 RXNs/bottle; 6 bottles	/
Storage Temp.	-20°C	RT

Singleron Biotechnologies



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