

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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Instrument Support and Service:

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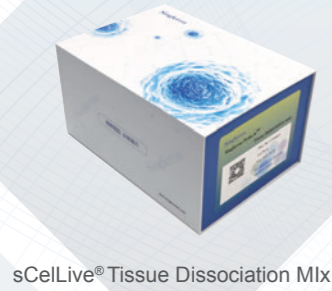
Singleron PythoN® Tissue Dissociation System

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



Singleron Biotechnologies

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 sCelLive[®] 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.



sCelLive[®] 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

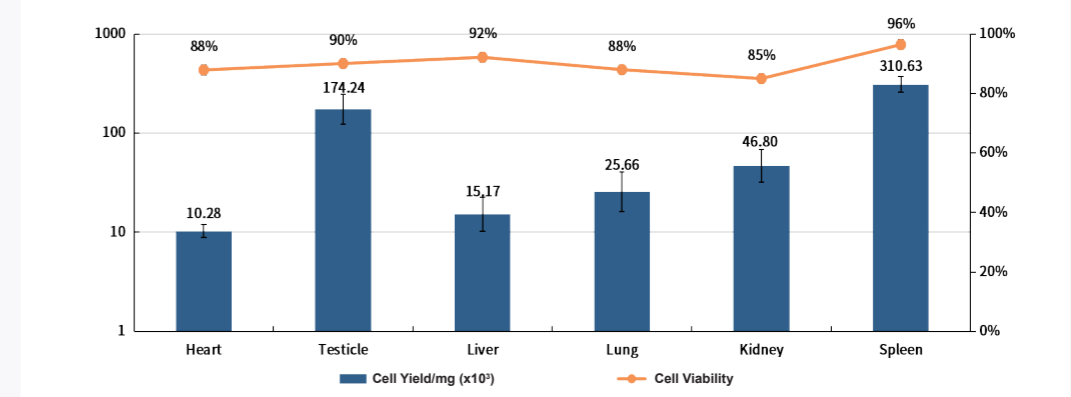
Product advantages

<p>Efficient</p> <ul style="list-style-type: none"> 8 samples in parallel, 15 min workflow Heating, mechanical dissociation and enzymatic reaction in one step 	<p>Flexible</p> <ul style="list-style-type: none"> Suitable for a broad range of tissue types Suitable for sample sizes starting from 10 mg
<p>Convenient</p> <ul style="list-style-type: none"> Complete workflow, touch screen and start No shredding required for 100mg+ samples 	<p>Intelligent</p> <ul style="list-style-type: none"> 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.

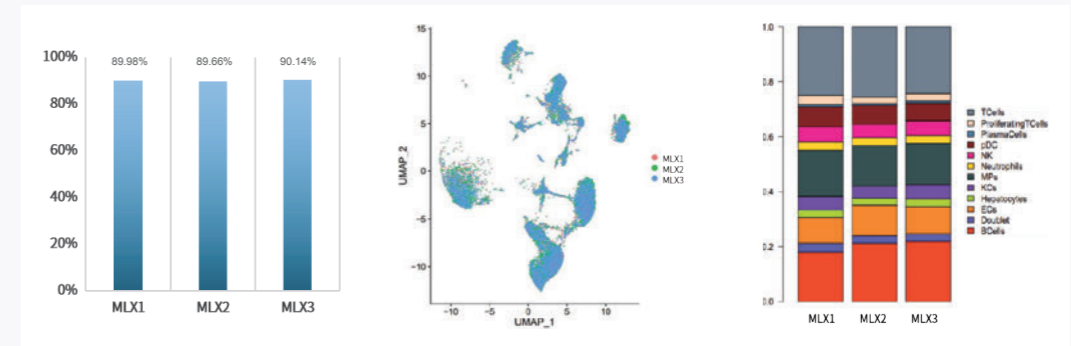
DATA DISPLAY
Demo Data

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	Total cells	Cell yield (Cells/mg)
14	99%	660,000	47,142
33	99%	1,322,000	40,061

Using Singleron PythoN[®] to process 14 mg and 33 mg of mouse liver tissue, cell viability and cell yield are maintained at a high level in the final single-cell suspension. Thus Singleron PythoN[®] is suitable for clinical needle biopsy samples.