Singleron PythoN® Tissue Dissociation System

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



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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 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 controling module enables a quick exploration of the best dissociation conditions for a specific tissue type.



Product advantages

Efficient Flexible Image: State of the sta

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.

Demo Data

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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

Muirne 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	sCelLive® Dissociation Mix	Singleron PythoN [®] Dissociation Units	
Specification	24RXNs	24pcs/box	
Package	4 RXNs/bottle; 6 bottles	1	
Storage Temp.	-20°C	RT	

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