

Automated Tissue Dissociation Systems The Singulator™ 100 and 200

Solid Tissue Dissociation. Automated. Flexible.

The bench-top Singulator System and its single-use cartridges enable reproducible, rapid and hands-off tissue dissociations into single cell or nuclei suspensions. Researchers can now easily obtain suspensions of nuclei or high-viability cells for a wide range of single cell analyses, from as little as 1 mg of solid tissues. Use pre-loaded protocols or create your own. Use specially formulated reagents from S2 Genomics, or use your own.



Single-Cell Cartridge



Nuclei Cartridge



Intuitive Touch-Screen Interface

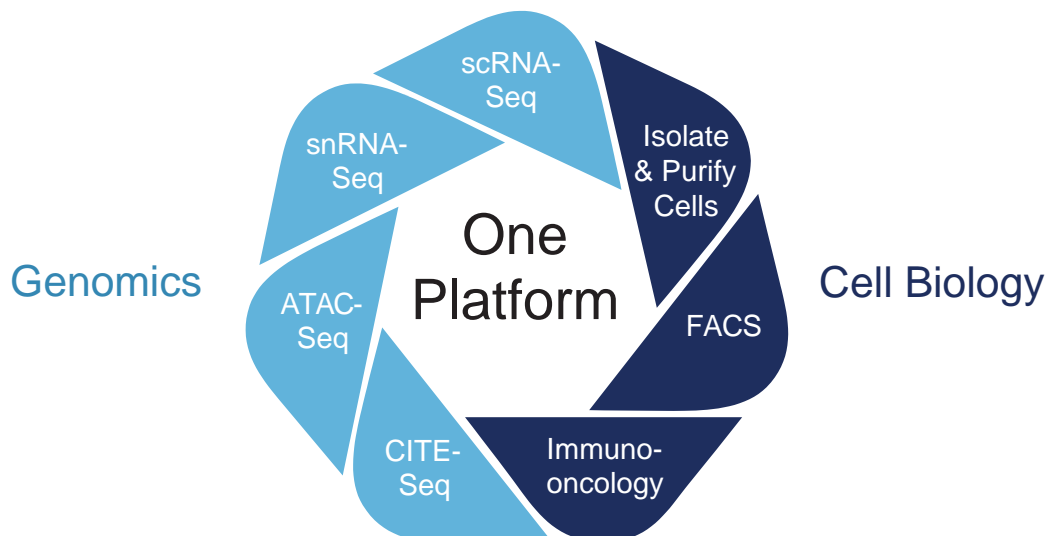
Two Sample Capacity

Easy Cartridge Loading

Two versions available. The “Singulator 100” is the smaller version for lower throughput with one working station, one cartridge and one assay position, whereas the “Singulator 200” has two of each.

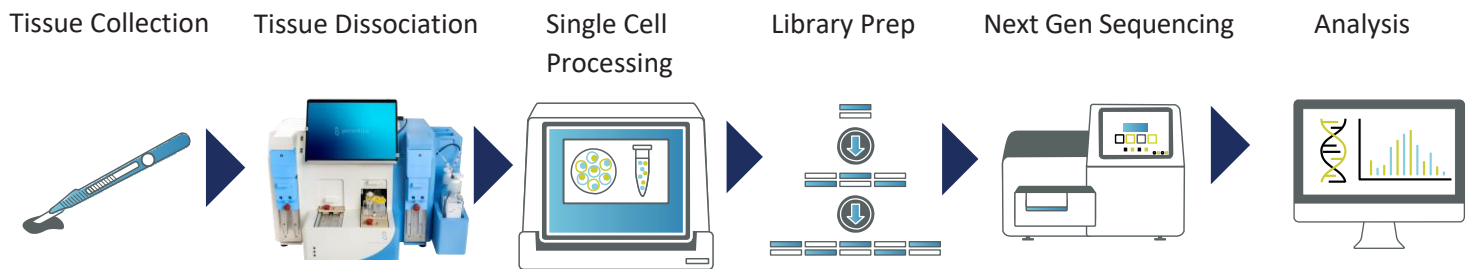
Minimal Variability. Multiple Applications

Ideal for genomics, cell biology and other ‘omics applications, including scRNA-Seq, snRNA-Seq, ATAC-Seq, CITE-Seq, FACS, and immuno-oncology. S2 Genomics provides a selection of pre-set protocols and pre-formulated reagents for cell isolations from an expanding set of mouse, rat, and human tissues, including tumors. See a selection of the wide range of tissues and organisms demonstrated on the Singulator System for nuclei isolation at <https://s2genomics.com/tissue-types-demonstrated-on-singulator-100/>.



Say Goodbye To Manual Tissue Dissociation

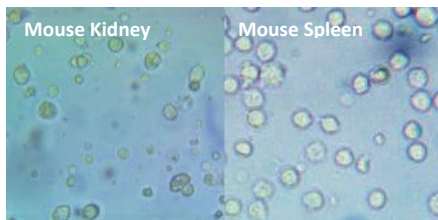
Tissue to single cells or nuclei in minutes.



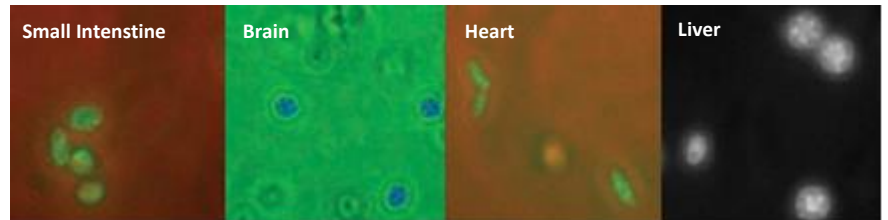
Fast. High Yield. High Viability.

Cells in 20-60 minutes

Nuclei in 6-10 minutes



Bright-field images of cells from mouse kidney and spleen tissues.



Merged DAPI-stained and bright-field images of small intestine, brain and heart tissue nuclei; DAPI stained liver nuclei. Courtesy of Dr. Minoda, Laboratory for Cellular Epigenomics, RIKEN Yokohama, Japan.

	Tissue Type	Process Time	Yield*	Viability*
Cells	Fresh, FFPE**	20-60 minutes	14,000 to >600,000/mg	80-95%
Nuclei	Fresh, Frozen, OCT, FFPE**	6-10 minutes	3,000 to >1,00,000/mg	N/A

*Varies depending on tissue types **Dissociation of deparaffinized, rehydrated FFPE slices.

Intuitive Software. Customizable Protocols.

Choose from a selection of pre-set protocols and pre-formulated reagents. Create your own protocols with customizable parameters, including mincing, enzyme incubation time, temperature, mixing and mechanical disruption profiles. Optionally, use your own reagents.

Incubation at 37 °C, room temperature, or 6 °C.

Cold dissociation minimizes the expression of stress-related genes during cell isolations and helps preserve RNA quality when isolating nuclei.

➔ Prices and freight information upon request.

07/2023