

The background features a light blue gradient with abstract, semi-transparent geometric shapes and patterns. Several molecular structures are scattered across the scene: a chain of three dark grey spheres in the top left, a hexagonal ring of six dark grey spheres in the center, a smaller hexagonal ring of six dark grey spheres to the right, and a hexagonal ring of six light grey spheres in the bottom right corner. A faint, semi-transparent petri dish is visible in the bottom right corner.

# Manual Homogenizers

Tissue Grinders are an inexpensive way to homogenize small samples.  
Available in disposable or non-disposable options.





# MANUAL HOMOGENIZERS

## Glass Homogenizers ///

### DOUNCE TISSUE GRINDERS

**Dounce Tissue Grinders** are often used to disrupt cells for the extraction of cell products including proteins, RNA and DNA. This grinder design is usually “stroked” a certain number of times to extract cell products or nuclei with minimal disruption. Each set contains both a tight and a loose fitting pestle.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
1	11 x 48	125	2	07-357538
7	13 x 82	175	2	07-357542
15	22 x 94	210	2	07-357544
40	32 x 140	285	2	07-357546



### TENBROECK TISSUE GRINDERS

**Tenbroeck Tissue Grinders** have a hollow handle that allows packing with ice, making them suitable for liver, intestines and heart tissue. The ice reduces the stress on the cells, helping to maintain cell viability and increase viable cell count.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
1	11 x 48	140	2	07-357421
2	11 x 50	140	2	07-357422
7	16 x 82	190	2	07-357424
15	22 x 94	250	2	07-357426
40	32 x 140	320	2	07-357428



### POTTER-ELVEHJEM GRINDERS

The **Potter-Elvehjem Grinder** with Teflon® pestle is well suited for soft tissue, such as brain and liver. The design of this grinder allows for quick homogenization of the tissue.

Size (mL)	Grinding Chamber OD x Length (mm)	Overall Length (mm)	Quantity / Case	Order #
2	11 x 45	203	2	07-358029
5	13 x 66	219	2	07-358034
10	16 x 74	219	2	07-358039
15	19 x 84	219	2	07-358044
30	24 x 118	266	2	07-358049
55	30 x 130	266	2	07-358054



**Overhead Stirrer** The Overhead Stirrer is a compact unit with solid state speed control capable of providing RPM/torque combinations for most laboratory operations such as homogenizing or mixing. *For use with the Potter-Elvehjem Tissue Grinders.*

Description	Order #
Overhead Stirrer	07-903475

**Micro Tissue Grinder Kit** The Micro Tissue Grinder Kit offers a selection of 7 micro tissue grinders, assuring the availability of the right style for the job. Contains: 1 mL Tenbroeck, 0.5 mL G.P.I., 1 mL Dounce, 2 mL Potter-Elvehjem, 1 mL Tapered, 0.1 mL Potter-Elvehjem, and 0.2 mL micro tissue grinders.

Description	Order #
Micro Tissue Grinder Kit	07-358204





## Single Use Homogenizers ///

### BIOMASHER

The **BioMasher™** is an essential tool for any researcher working with nucleic acid extraction, protein extraction, and many types of cell disruption. Its proprietary design consists of a homogenizer for grinding your sample, an 80-145µm column for straining, and a collection tube to contain the final homogenate. This system can be used on a wide variety of tissues, and is an ideal preparatory step of amplification and other downstream applications. BioMashers are also autoclavable for sterile applications.

#### PRODUCT FEATURES:

- Ideal for nucleic acid extraction, protein extraction, and many types of cell disruption
- Consists of a homogenizer for grinding, an 80-145µm column for straining, and a collection tube to contain the final homogenate
- Tubes available in 1.5 mL or 2 mL sizes
- Available with an O-Ring for soft samples and without an O-Ring for harder tissues
- Ideal for sample preparation in conjunction with Omni Tip™ disposable probes



### BioMasher Single Use Homogenizer

*Sample packs are also available. Call for pricing.*

Description	Quantity	Order #
BioMasher 1.5 mL	50	09-A10-050
	300	09-A10-300
BioMasher 1.5 mL with O-Ring	50	09-A11-050
	300	09-A11-300
BioMasher 2 mL	50	09-A12-050
	300	09-A12-300
BioMasher 2 mL with O-Ring	50	09-A13-050
	300	09-A13-300

