

BioMasher

Innovative disposable homogenizer

The patented BioMasher, a high-performance disposable homogenizer, is suitable for the extraction of proteins, RNA, DNA, and other molecules from animal and plant tissues. BioMasher is available in a wide variety of sizes and hardnesses for a wide range of research and analytical applications.

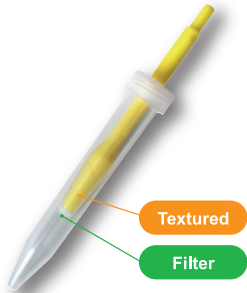
BioMasher I

Efficient and easy sample crushing by centrifugal separation



BioMasher V

BioMasher III's large capacity type



BioMasher II

Dimples on grinding surface
Processing increases crushing efficiency!



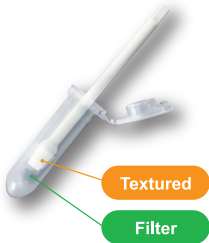
BioMasher sp

BioMasher II's large capacity type



BioMasher III

Double crushing effect by grinding and filtering



PowerMasher II

Crushing of large volume samples, supports difficult manual crushing!



	BioMasher I	BioMasher II	BioMasher III	BioMasher V	BioMasher sp	PowerMasher II
Feature	Many prep at a time	For high yield	For high yield Many prep at a time	For high yield Many prep at a time	For high yield	High torque to support crushing
Collection amount	small	Large	Large	Large	Large	N/A
Producing heat	Heatless	Manageable	Manageable	Manageable	Manageable	Manageable
Required device	Centrifuge	None	Centrifuge	Centrifuge	None	II, III, V, SP
Soft tissues	++	++	++	++	++	N/A
Hard tissues	—	++	++	++	++	N/A

Homogenization by filter (centrifugation)

BioMasher I

2 types are available: with O-rings to prevent sample backflow and without O-rings for easy crushing.

Pestle (PP)

O-ring (Nitrile rubber)

Filter tube (PP)

1.5 mL tube (PP)

Filter pore size (PP): 80~145 μm
(PE): 20~60 μm

1 Put the sample in the filter tube set inside the microtube.

Less than 100 mg Less than 500 μL

2 Push the pestle securely until the sample contacts the filter surface.

3

Put the pestle in the centrifuge with the crushing stick in it. (10,000~15,000×g 10~30 sec)

*Except for some samples (fibrous tissues such as epidermis, mesentery, and tail), filter tubes should be used without buffer. The filter may clog during centrifugation and the tubes may be damaged.

- Disposable homogenizer for easy crushing of biological tissue
- By pushing and turning the cross-shaped blade at the tip of the pestle by hand, it is possible to grind and dip a sample that is hard to crush.
- Polyethylene filter (PE) type has smaller pore size and can crush finer samples
- The filter tube has a jaw to secure it to the microtubing snap cap

Code	Product name	Uses	Sterile	Size
893 012	BioMasher I	For soft tissues 1.5 mL microtube (with O-ring, PP filter)	Non-Sterile	30 sets
893 011		For hard tissues 1.5 mL microtube (without O-ring, PP filter)		30 sets
893 041		Filter pore size small type 1.5 mL microtube (with O-ring, PE filter)		30 sets

Homogenization by texturing

BioMasher II

Best selling
No.1

Pestle grip (1 piece included, silicone rubber)

Pestle (POM)

1.5 mL tube (PP)

Textured

1 Less than 100 mg Less than 500 μL

2 Grind with a pestle

BioMasher sp

Large capacity type of BioMasher II

Cap with hole (PP)

Pestle grip (1 piece included, silicone rubber)

Pestle (POM)

15 mL centrifuge tube (PP)

Textured

1 Less than 1,500 mg Less than 5,000 μL

2

3

Cap (PP)

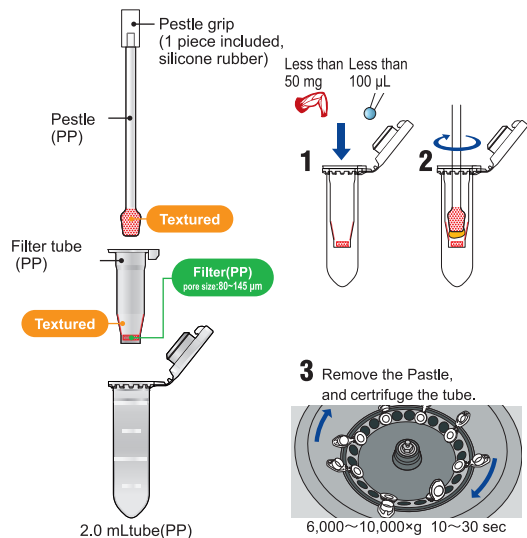
- Homogenizer with inner dimpled tube and surface dimpled pestle for effective sample crushing
- Pestle prevents sample scattering and backflow
- Capable of crushing various types of samples (animal tissues and organs, plants, insects)

*For samples that are difficult to crush, a dedicated electric stirrer (PowerMasher II) can be used for effective crushing.
*Cannot be autoclaved. If sterilization is required, use sterilized products.

Code	Product name	Sterile	Size
893 061	BioMasher II	Non-sterile	100 sets
893 062		EOG-sterilized	100 sets
893 161	BioMasher SP	Non-sterile	40 sets
893 163		EOG-sterilized	40 sets

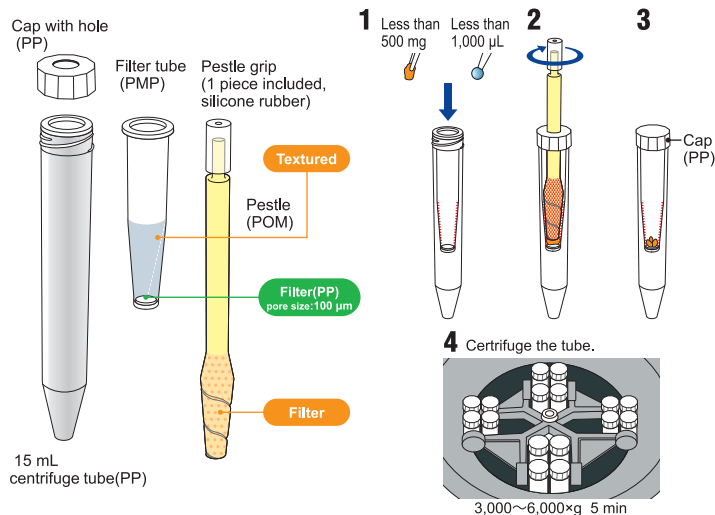
Homogenization by texturing + Filtration by filter (centrifugal)

BioMasher III



BioMasher V

Large capacity type of BioMasher III



- The BioMasher combines the features of the BioMasher I and II
- It crushes, centrifuges, and filters samples using a tube with dimpled inner surface and an agitator with dimpled surface
- Ideal for crushing samples with high fiber content

*For samples that are difficult to crush, the dedicated electric agitator (PowerMasher II) can be used for effective crushing.

Code	Product name	Sterile	Size
893 131	BioMasher III	Non-sterile	50 sets
893 151	BioMasher V	Non-sterile	20 sets
893 153		EOG-sterilized	20 sets