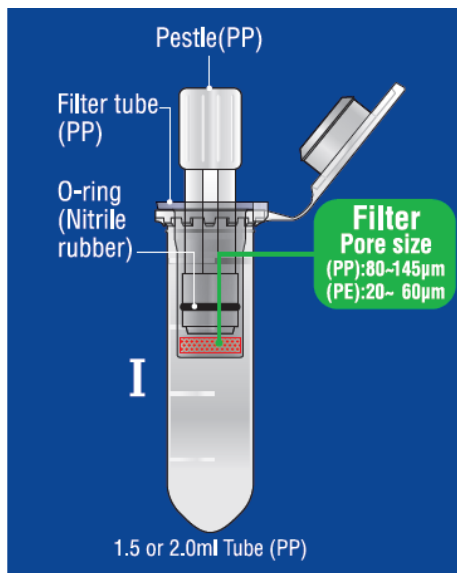


# Convenient and Safe! Disposable Homogenizer BioMasher I

For more information : [http://www.funakoshi.co.jp/exports\\_contents/46114](http://www.funakoshi.co.jp/exports_contents/46114)

BioMasher I is a convenient disposable homogenizer. This is suitable for extraction of DNA, RNA and protein from soft and tough samples.



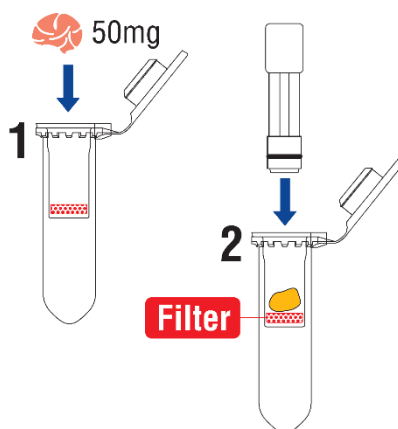
## Features

- High homogenization efficiency
- Good recovery
- No heat generation
- Two types (with O-ring or without O-ring) of pestle
  - To avoid spill of infectious liquid samples, pestle "with O-ring" is recommended.
- Two pore sizes (PP : 80 – 145 µm or PE : 20 – 60 µm)
- " X " shape blade on the tip of pestle
  - Enables to grind samples (which are difficult to be homogenized by only centrifuge) by pushing and twisting pestle.
- PP : Autoclavable / PE : non-Autoclavable

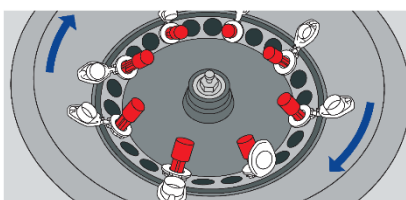
## Handling procedure

1. Put samples into filter cup and insert pestle.
2. For soft samples, centrifuge at 10,000 to 15,000 x g for 10 to 30 seconds with pestle.

For tough samples, grind samples by pushing and twisting pestle. Afterwards, centrifuge at 10,000 to 15,000 x g for 10 - 30 seconds with pestle.



3 The pestle is necessary.



10,000~15,000xg 10~30sec

## Product Information

### ■ BioMasher I for soft samples

[ Manufacturer : NIP ]

Product Name	Size	Code
BioMasher I with 1.5ml Microtube with O-ring, PP filter	30 sets	NIP-30-1.5-O
	120 sets	NIP-120-1.5-O
BioMasher I with 2.0ml Microtube with O-ring, PP filter	30 sets	NIP-30-2.0-O
	120 sets	NIP-120-2.0-O

### ■ BioMasher I for tough samples

Product Name	Size	Code
BioMasher I with 1.5ml Microtube w/o O-ring, PP filter	30 sets	NIP-30-1.5
	120 sets	NIP-120-1.5
BioMasher I with 2.0ml Microtube w/o O-ring, PP filter	30 sets	NIP-30-2.0
	120 sets	NIP-120-2.0

### ■ BioMasher I with small pore size filter for soft samples

Product Name	Size	Code
BioMasher I with 1.5ml Microtube with O-ring, PE filter	30 sets	NIP-30-1.5-O-PE
	120 sets	NIP-120-1.5-O-PE
BioMasher I with 2.0ml Microtube with O-ring, PE filter	30 sets	NIP-30-2.0-O-PE
	120 sets	NIP-120-2.0-O-PE

### ■ BioMasher I with small pore size filter for tough samples

Product Name	Size	Code
BioMasher I with 1.5ml Microtube w/o O-ring, PE filter	30 sets	NIP-30-1.5-NS
	120 sets	NIP-120-1.5-NS
BioMasher I with 2.0ml Microtube w/o O-ring, PE filter	30 sets	NIP-30-2.0-NS
	120 sets	NIP-120-2.0-NS

#### NOTE

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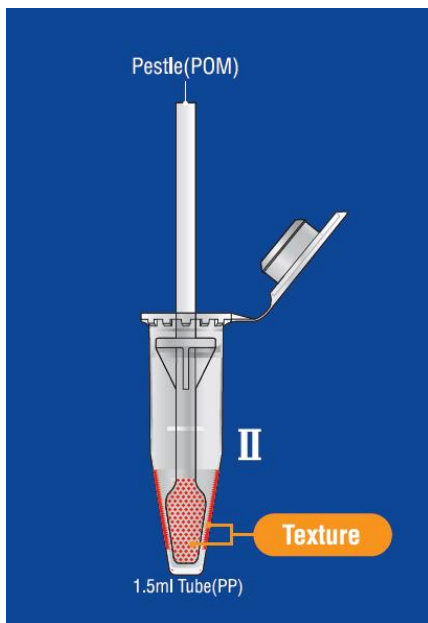
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# Convenient and Safe! Disposable Homogenizer BioMasher II

For more information : [http://www.funakoshi.co.jp/exports\\_contents/46114](http://www.funakoshi.co.jp/exports_contents/46114)

BioMasher II is a convenient disposable homogenizer. This is suitable for extraction of DNA, RNA and protein from animal, insect and plant tissues.

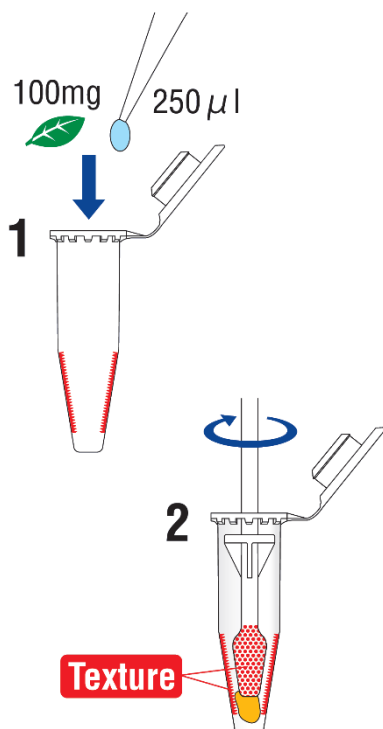


## Features

- High homogenization efficiency
  - By texture on both pestle and inside of tube.
- High recovery
- Heat can be controlled
- No centrifuge
- Pestle has sample rebound structure.
- PP : Autoclavable / POM : non-Autoclavable
- EOG-Sterilized and non-sterilized product are available.
- Much higher homogenization efficiency by using PowerMasher II (Pestle Motor).

## Handling procedure

1. Put samples and buffer into tube and insert pestle.
2. Grinding samples by pestle by hand or Power Masher II.



# PowerMasher II

PowerMasher II is a pestle motor, optimized for BioMasher II, III, V and SP series.

## Features

- Increase homogenization efficiency dramatically.
- Works on two AA batteries (Accessories).



Check a movie at  
[http://www.funakoshi.co.jp/exports\\_contents/80608](http://www.funakoshi.co.jp/exports_contents/80608)

## Product Information

### ■ BioMasher II

[ Manufacturer : NIP ]

Product Name	Size	Code
BioMasher II (non-sterilized)	100 sets	320102
BioMasher II (EOG-sterilized)	100 sets	320103

### ■ PowerMasher II (Pestle motor)

[ Manufacturer : NIP ]

Product Name	Size	Code
PowerMasher II	1 piece	891300

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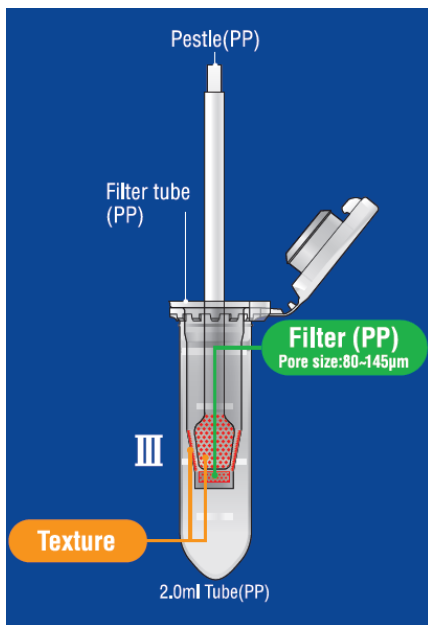
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# Convenient and Safe! Disposable Homogenizer BioMasher III

For more information : [http://www.funakoshi.co.jp/exports\\_contents/46114](http://www.funakoshi.co.jp/exports_contents/46114)

BioMasher III is a convenient disposable homogenizer. This is suitable for extraction of DNA, RNA and protein from samples.

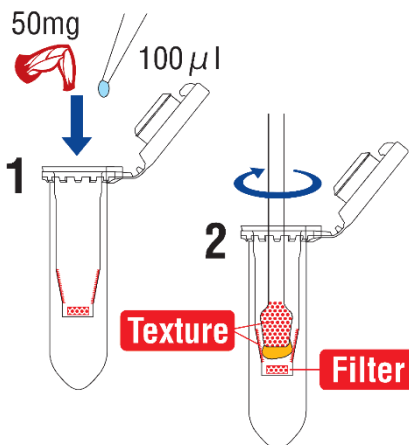


## Features

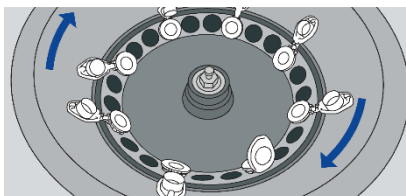
- High homogenization efficiency
  - By texture on both pestle and inside of filter tube.
- High recovery
- Heat can be controlled
- Centrifuge required
- PP : Autoclavable
- Much higher homogenization efficiency by using PowerMasher II.

## Handling procedure

1. Put samples and buffer into tube and insert pestle.
2. Grind samples by pestle by hand or PowerMasher II (Pestle Motor).
3. Centrifuge at 6,000 to 10,000 x g for 10 - 30 seconds without pestle.



**3** The pestle is not necessary.



6,000~10,000xg 10~30sec

# PowerMasher II

PowerMasher II is a pestle motor, optimized for BioMasher II, III, V and SP series.

## Features

- Increase homogenization efficiency dramatically.
- Works on two AA batteries (Accessories).



Check a movie at  
[http://www.funakoshi.co.jp/exports\\_contents/80608](http://www.funakoshi.co.jp/exports_contents/80608)

## Product Information

### ■ BioMasher III

[ Manufacturer : NIP ]

Product Name	Size	Code
BioMasher III	50 sets	320302

### ■ PowerMasher II (Pestle motor)

[ Manufacturer : NIP ]

Product Name	Size	Code
PowerMasher II	1 piece	891300

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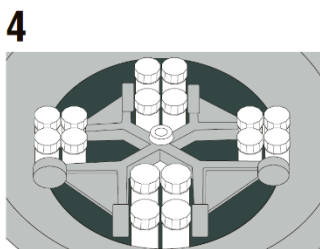
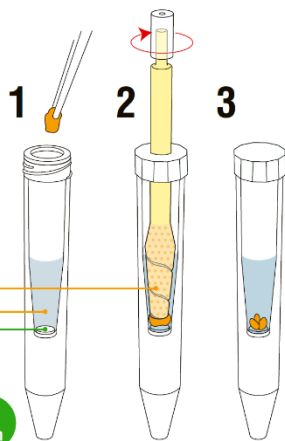
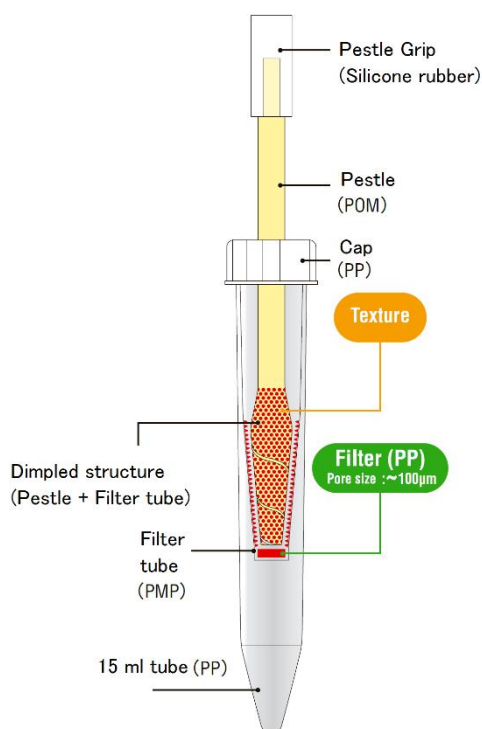
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# Convenient and Safe! Disposable Homogenizer BioMasher V

For more information : [http://www.funakoshi.co.jp/exports\\_contents/80608](http://www.funakoshi.co.jp/exports_contents/80608)

BioMasher V is a convenient disposable homogenizer. This is suitable for extraction of DNA, RNA and protein from samples.



## Features

- High homogenization efficiency
  - By texture on both pestle and inside of filter tube.
- High collection amount
  - Enlarged type of BioMasher III.
- Heat can be controlled
- Centrifuge required
- PP : Autoclavable / POM : non-autoclavable
- EOG-Sterilized or non-sterilized product are available.
- Much higher homogenization efficiency by using PowerMasher II (Pestle Motor).

## Handling procedure

1. Put samples into tube and insert pestle.
2. Grinding samples by pestle by hand or PowerMasher II.
3. Remove pestle.
4. Centrifuge at 6,000 to 10,000 x g for 10 - 30 seconds.



# PowerMasher II

PowerMasher II is a pestle motor, optimized for BioMasher II, III, V and SP series.

## Features

- Increase homogenization efficiency dramatically.
- Works on two AA batteries (Accessories).



Check a movie at  
[http://www.funakoshi.co.jp/exports\\_contents/80608](http://www.funakoshi.co.jp/exports_contents/80608)

## Product Information

### ■ BioMasher V

[ Manufacturer : NIP ]

Product Name	Size	Code
BioMasher V (non-sterilized)	20 sets	891390
	100 sets	891391
BioMasher V (EOG-sterilized)	20 sets	891392
	100 sets	891393

### ■ PowerMasher II (Pestle motor)

[ Manufacturer : NIP ]

Product Name	Size	Code
PowerMasher II	1 piece	891300

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# Convenient and Safe! Disposable Homogenizer BioMasher SP

For more information : [http://www.funakoshi.co.jp/exports\\_contents/80603](http://www.funakoshi.co.jp/exports_contents/80603)

BioMasher SP is a convenient disposable homogenizer. This is suitable for extraction of DNA, RNA and protein from animal, insect and plant tissues.

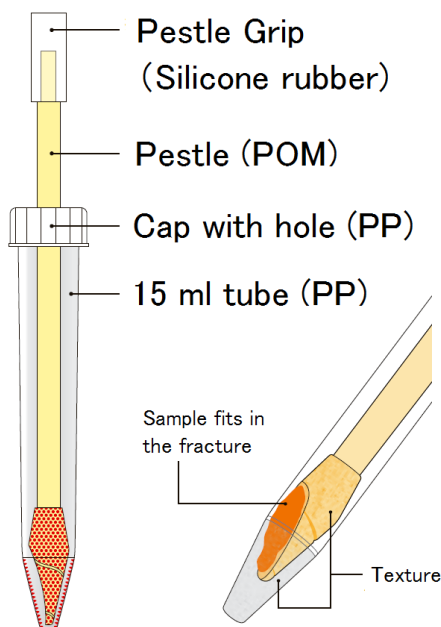


## Features

- High homogenization efficiency
  - By texture on both pestle and inside of tube.
- High collection amount
  - Enlarged type of BioMasher II.
- Heat can be controlled
- No centrifuge
- PP : Autoclavable / POM : non-Autoclavable
- EOG-Sterilized or non-sterilized product are available.
- Much higher homogenization efficiency by using PowerMasher II (Pestle Motor).

## Handling procedure

1. Put samples and buffer into tube and insert pestle.
2. Grind samples by pestle by hand or Power Masher II.



# PowerMasher II

PowerMasher II is a pestle motor, optimized for BioMasher II, III, V and SP series.

## Features

- Increase homogenization efficiency dramatically.
- Works on two AA batteries (Accessories).



Check a movie at  
[http://www.funakoshi.co.jp/exports\\_contents/80603](http://www.funakoshi.co.jp/exports_contents/80603)

## Product Information

### ■ BioMasher SP

[ Manufacturer : NIP ]

Product Name	Size	Code
BioMasher SP (non-sterilized)	40 sets	893161
	100 sets	893162
BioMasher SP (EOG-sterilized)	40 sets	893163
	100 sets	893164

### ■ PowerMasher II (Pestle motor)

[ Manufacturer : NIP ]

Product Name	Size	Code
PowerMasher II	1 piece	891300

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