

# Handy Homogenizer for Cells & Tissues

Handheld Electromotion & Autoclave-Resistant Homogenizer Pestles for 15 ml, 1.5 ml, 0.5 ml and  $\mu$ l volumes

The small but powerful handy homogenizer handheld unit and matching high performance pestles will make your repetitive laboratory procedures easier, faster, and more reproducible. Great for protein or nucleic acid extractions!

## Features

### Electromotion Homogenizer Unit



- Completely portable: runs for hours on standard or rechargeable AAA batteries
- Lightweight: ~78 g with batteries
- Two models: high speed or low speed/high torque
- Snap-fit system for easy-on/easy-off pestle exchange

### PCTFE Homogenizer Pestles

- Ultra hard PCTFE polymer tips insure smooth grinding surface, long life, heat and chemical resistance.
- Fully autoclavable.
- Perfect fit for standard 15 ml, 1.5 ml, 0.5 ml tubes, or microliter sized V-vials.
- Unique grooved tips (G-types) prevent sample trapping to insure complete homogenization.




## Homogenizer Pestles for 1.5 ml Tube

Type of Homogenizer Pestles	Photo	Characteristic	Material	Maximum diameter/ Full length (mm)	Sample volume
Large-head (LH, LHG)		Perfect fit with tube for maximum grinding. Smooth or grooved-tip.	PCTFE	8/100	400 $\mu$ l or less
Pencil (PA)		Narrow profile for special applications.	PCTFE	5/100	400 $\mu$ l or less

Type of Homogenizer Pestles	Matched Tube	Cat.#	Quantity
Large-head (LH)	Eppendorf 3810X type 1.5 ml tube	ISO-226AX-EX	2 PC
	Greiner 616201 type 1.5 ml tube	ISO-LH-GREINER-616201	2 PC
	I.S.O. G-15S type 1.5 ml tube	ISO-276A	2 PC
Large-head with grooved-tip (LHG)	Eppendorf 3810X type 1.5 ml tube	ISO-226AXG-EX	2 PC
	I.S.O. G-15S type 1.5 ml tube	ISO-276AG	2 PC
Pencil (PA)	Eppendorf 3810X type 1.5 ml tube	ISO-223AX-EX	4 PC
	I.S.O. G-15S type 1.5 ml tube	ISO-227A	4 PC
	I.S.O. SR-150 type 1.5 ml tube	ISO-228A	4 PC
Pencil with grooved-tip (PAG)	Eppendorf 3810X type 1.5 ml tube	ISO-228AXG	4 PC

### Homogenizer Pestle for 0.5 ml Tube

Type of Homogenizer Pestles	Photo	Characteristic	Material	Maximum diameter/ Full length (mm)	Sample volume
Small-head (SH)		For 0.5 ml tubes	PCTFE	4/100	50 µl or less

Type of Homogenizer Pestles	Matched Tube	Cat.#	Quantity
Small-head (SH)	I.S.O. F-050 type 0.5 ml tube	ISO-451A	4 PC

### Homogenizer Pestle for 15 ml Falcon-type Tube

Shaft Diameter/Material	5 mm/PCTFE
Head Diameter/Material	12 mm/PCTFE
Full length	15 cm
Sample volume	5 ml or less

For this Homogenizer Pestle, high-level torque type "ISO-23M-R25-EX" mixer is recommended to use (see below).



Product Name	Cat.#	Quantity
Homogenizer Pestle for 15ml Falcon tube	ISO-FT-2012A-EX	2 PC

### Ultra Micro Homogenizer System

For your smallest samples (1-100 µl), the Ultra Micro PCTFE homogenizer pestle and matching borosilicate V-vials are the perfect solution.

Material	PCTFE
Diameter Shaft/Head	5/4 mm
Full length	100 mm
Reusage	Reusable. Autoclavable.

Specifications: Ultra Micro Homogenizer V-vial

Material	Borosilicate glass
Reusage	Reusable. Autoclavable.
Sample volume	Maximum 100 µl



Product Name	Cat.#	Quantity
Homogenizer Pestle (Ultra Micro)	ISO-ST-22-EX	2 PC
V-vial for Homogenizer Pestle ST-22	ISO-STV-502-EX	2 PC
V-vial for Homogenizer Pestle ST-22	ISO-STV-512-EX	12 PC
Homogenizer Set (Ultra Micro) (2 Pestles, 23M Electromotion Mixer, 2 V-vials)	ISO-ST-202S-EX	1 SET

### Handheld Electromotion Mixer

The Electromotion Mixer base unit is available in two models having different motors. A high speed model for general procedures, and a low speed/high torque model with special gearing for samples that require maximum grinding power. Both feature an easy-on/easy-off snap-fit mechanism compatible with all I.S.O. pestles.



Specifications: Cat.# ISO-23M-EX

Power source	Two AAA batteries (alkaline or rechargeable)
Speed of revolution	9,000 rpm (fixation)
On/off switch	touch-tone on/off switch
Weight	approx. 78 g (including batteries)

Specifications: Cat.# ISO-23M-R25-EX

Power source	Two AAA batteries (alkaline or rechargeable)
Speed of revolution	approx. 350 rpm (at 3V)
On/off switch	touch-tone on/off switch
Weight	approx. 75 g



Product Name	Cat.#	Quantity
Electromotion Mixer	ISO-23M-EX	1 SET
Electromotion Mixer [DC Coreless Motor and Gear Head]	ISO-23M-R25-EX	1 SET

Homogenizer sets including base unit and pestles are also available. For details, please visit [www.cosmobio.com](http://www.cosmobio.com)

For research use only, Not for diagnostic use.

Manufacturer: I.S.O. Inc.



**COSMO BIO Co., LTD.**

TOYO EKIMAE BLDG. 2-20, TOYO 2-CHOME,  
KOTO-KU. TOKYO 135-0016, JAPAN  
TEL : (81)3-5632-9617  
FAX : (81)3-5632-9618  
e-mail : [export@cosmobio.co.jp](mailto:export@cosmobio.co.jp)  
URL : [www.cosmobio.com](http://www.cosmobio.com)