

Package Contents

Package Description		Cat. No.
The 3rd Gen Variable Speed TGrinder Set		OSE-Y50
Contents	The 3rd Gen Variable Speed TGrinder	
	Power Adapter	
	User's Manual	
	Warranty Card	
	TGrinder Holder	
Supplied Consumables	3rd Gen Metal Pestle	OSE-Y002
	Grinding Pestle Collecting Box	OSE-Y003
	Grinding Pestle Box (40 plastic TGrinder pestles are included)	OSE-Y004
Optional Consumables	3rd Gen Plastic TGrinder Pestle	OSE-Y001
	15 ml Metal TGrinder Pestle	OSE-Y007

Quality Assurance: The product warranty period is 12 months. The product quality problems caused by any artificial damage or mis-operation are not covered by the warranty.

After Sales Service Hotline: 400-810-6057 800-990-6057

TGrinder 3rd Gen Variable Speed User's Manual



Grinding
Pestle
Collecting
Box



Grinding Pestle
Box (40 plastic
TGrinder pestles
are included)



Metal
TGrinder
Pestle



TGrinder
Holder

Cat. No.	Product Name
OSE-Y50	The 3rd Gen Variable Speed TGrinder

Product Description

OSE-Y50 3rd Gen Variable Speed TGrinder is a small hand-held tissue grinder with a built-in brushless motor driven pestle device. It can be used to grind tissue samples in 1.5 ml or 15 ml centrifuge tubes. It can grind and mix the sample at the same time, and can reduce the sample loss during the operation process. OSE-Y50 has a speed regulation function with the rotating speed in the range of 0-12000 rpm, and can handle a variety of tissue samples flexibly. The grinder is of high torque and long service life.

Applications

1. It is suitable for grinding and breaking all kinds of plant tissues, including roots, stems, leaves, flowers, fruits, seeds and other samples.
2. Suitable for grinding and breaking of all kinds of animal tissues, including brain, heart, lung, stomach, liver, thymus, kidney, intestine, lymph node and muscle.
3. It can be used for homogenate.

Parameters

Product Name	3rd Gen Variable Speed TGrinder
Cat. No.	OSE-Y50
Speed	0-12000 (rpm)
Rated Voltage	12 (V)
Noise	65 (db)

User Guide

1. Install TGrinder pestle:
Insert the TGrinder pestle directly into the sliding sleeve at the front of the TGrinder, and the pestle will be installed and locked in one second (Figure 1). Use with the pestle box to realize the direct plug-in mounting (Figure 2).
2. Grind the sample with TGrinder:
Hold the body of the TGrinder (the TGrinding pestle has been installed into the TGrinder), and put the TGrinder pestle into the centrifuge tube with the sample and lysis buffer (it is recommended that the volume of lysis buffer should not exceed 150 μ l), press the switch on the side of the TGrinder with your finger, and it will start to work (Figure 3). Release the finger from the switch to stop grinding.
3. Remove the TGrinder pestle:
When the grinding is done, Grinding Pestle Collecting Box provided in the kit can be used to collect the pestle. Insert the pestle into the unloading hole, and the pestle will fall off automatically with a slight press. Pollution can be avoided by collecting all the pestles in the box (Figure 4).
4. Set the grinding power by twisting the speed control knob at the upper end of the

TGrinder according to the experimental requirements. The speed is within the range of 0-12000 rpm.

Operation skill: in order to prevent the sample from splashing when the TGrinder pestle is working at high speed, it is recommended to intermittently press the switch button to achieve the best effect.



Figure 1

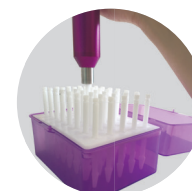


Figure 2



Figure 3



Figure 4



Speed control knob

TGrinder body

Sliding sleeve

Figure 5

Precautions

1. Do not press too hard on the joint of the grinder and pestle.
2. When using TGrinder to grind the sample, the volume of the lysis buffer is recommended not to exceed 150 μ l, so as to prevent unnecessary injury caused by the splashing of the lysis buffer out of the centrifuge tube during the grinding process.
3. The grinder is a motor-driven instrument, which should not be used to grind hard samples too often to prevent the damage of its joint area.
4. Operate the grinder intermittently, and keep pressing the grinder switch for 3-5 s to avoid the melting of TGrinder pestle and plastic consumables caused by the generation of heat by friction.
5. Avoid contacting with water and other liquids in the movement of the instrument, and also avoid immersing the instrument in water and other liquids, so as not to cause short circuit of the instrument.
6. The body of the instrument is not resistant to strong acid, strong alkali and most organic solvents. Salty liquid also has certain corrosive effect on the metal in the equipment. If the instrument is inadvertently exposed to the above chemicals, please immediately wipe it clean with water.
7. First plug the power adapter into the instrument connector, and then plug in the power socket.
The pestle should not touch any part of human body when working, so as to avoid personal injury. All accessories of the product (power supply, pestle) can only be used with this instrument, but not with other instruments without authorization. In case of any violation of the above items, the consequences shall be borne by the users.