

bead homogenizing mill

The Nahita Blue bead homogenizer mill has been designed with the most advanced technology and the best materials to obtain exceptional performance. **It is a high performance mill perfect for homogenizing, grinding, milling or lysing any type of biological sample before extraction or molecular analysis.**

The wide variety of programmable cycles in speed and time, and of grinding beads allow to homogenize all kinds of samples: **bacteria, yeasts, cells, animal and vegetable tissues, etc.** The high performance of the Nahita Blue homogenizer allows to increase the amount of nucleic acids, proteins, organelles and small molecules obtained from the introduced samples.

The Nahita Blue homogenizer has a maximum capacity of 24 tubes to which a 3D movement is applied with variable speed and stirring time, producing highly efficient impacts between the sample and the grinding beads, allowing the cell contents to be obtained in a few seconds. For the most fragile samples it is possible to program the homogenization in different cycles with time interval between cycles to minimize the sample temperature increase. It is possible to configure the equipment with up to 99 stored programs.

Disposable 2 mL tubes are available to avoid cross contamination and a wide variety of homogenization balls for different types of samples.



main features

- High quality materials and consistent construction
- Maintenance-free brushless motor
- Highly efficient microprocessor-based process control
- Large LCD display with separate parameters for more efficient viewing
- Intuitive interface for easy parameter setting
- Safety lid detection system to prevent incidents
- Double rotor fixing system
- Clamping of each tube individually
- Automatic imbalance detection
- Its design increases the air flow allowing to maintain a constant temperature inside the chamber
- Programmable stirring speed in m/s or rpm



[General switch]

It allows to interrupt the power of the device safely and quickly.



[Brushless motor]

Maintenance free, quality materials.



[LCD display]

Large LCD display, up to 99 stored programs. memorizados, Intuitive interface.

bead homogenizing mill

bead homogenizing
equipment parts

1
Lid with security
system

2
Display LCD



3
Clamping of each tube
individually

4
Double rotor fixing system

5
Open-closed handle



technical features

- 1 | The collision among the homogenizer beads is very effective in grinding many types of samples.
- 2 | The choice of the material and the size of the balls is decisive for the correct homogenization of each type of sample.

Code	ZHB004
Capacity	24 tubes of 2 mL
Agitation speed range	0.80 – 7.50 m/s (0.05 m/s step increment) 490 – 4550 rpm (30 rpm step increment)
Run time	1 – 90 seconds
Number of cycles	1 - 10
Pause time	10 – 600 second (1 sec increment)
Storage	99 programs
Dimensions (W x D x H)	350 x 490 x 315 mm
Weight	32.5 kg
Power supply	230 V AC / 5 Hz
Consumption	160 W

bead homegenizing general advice

- 1| To obtain an effective homogenization it is important that the tubes are not overloaded.
- 2| It is recommended that the total volume of the tube does not exceed half of the tube.
- 3| The volume of the sample and the buffer should be double that of the homogenizing balls.
- 4| Detergents should not be used to avoid the production of foam that prevents the free movement of the beads.
- 5| Solid tissue should be about 5% of the tube volume (e.g. 100 mg of tissue per 2 mL tube)

Sample type	Bead material						
	Glass		Zirconium			Stainless steel	
Size	0.5 mm	1.0 mm	1.0 mm	1.5 mm	3.0 mm	2 mm	3 mm
Code	ZHD007	ZHD008	ZHD009	ZHD010	ZHD011	ZHD012	ZHD013
Microbes, yeast, bacterias	•						
Fungy, alga cells		•	•				
Soft animal tissues		•	•	•			
Fibrous animal tissues					•	•	•
Vegetable tissues				•	•	•	
Hard Biological simples					•	•	•