

3D, Sunflower Mini-Shaker

DESCRIPTION

"Sunflower" **3D** Mini-Shaker provides adjustable three-dimensional smooth rotation of the platform and is designed for mixing blood samples, for minigel staining and destaining, sample washing, blot hybridization reactions.

Mini-Shaker is a compact device with low energy consumption. The use of direct drive and brushless motor allows continuous mixing up to 7 days and ensures reliable, trouble-free operation for many years.

Non-slip, temperature resistant, silicone mat located on the shaker's platform provides stable position for vessels during shaking. The platform is suitable for placing a versatile dimpled PDM mat for different size tubes.

Mini-Shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.



Product video is available on the website

Basic Plus Product Class



Multi Bio 3D, Programmable mini-shaker («Sunflower» type)

DESCRIPTION

Programmable mini-shaker **Multi Bio 3D** is designed for a variety of applications: hybridization reactions, cell growing, gel washing, soft extraction and homogenisation of biological components in solutions.

Multi Bio 3D provides realization of several types of motion in one module. This option of Biosan instruments essentially extends possibilities and enhances efficiency of preparation of test samples as well as allows selecting the mixing type according to individual requirements.

Microprocessor control allows performing not only **1 Orbital 3D rotation** of the platform, but also **2 Reciprocal 3D motion** (of ping-pong type) as well as **3 Soft vibrating rocking**. These three motion types can be performed separately, pairwise and in cycles, periodically repeating the sequence of three motion types. The shaker is designed for laboratories with increased demands for quality of mixing, extraction and cell growing processes.

Non-slip, temperature resistant, silicone mat located on the shaker platform provides stable position for vessels during shaking. Optional dimpled PDM mat fixes tubes of different sizes.

Programmable shaker can be used in cold rooms or incubators, operating at ambient temperature range +4°C to +40°C.



Product video is available on the website

Premium Product Class



3D Mini-Shaker and Multi Bio 3D, Programmable 3D shaker («Sunflower» type)

SPECIFICATIONS

	3D	Multi Bio 3D
❶ Speed control range (orbital and reciprocal motion)	5-60 rpm	1-100 rpm
❷ Turning angle (reciprocal motion)	—	0-360° (increment 30°)
❸ Rocking angle (Vibro motion)	—	0-5° (increment 1°)
Fixed tilt angle	7°	
Orbit	—	22 mm
Platform working area	215 × 215 mm	
Non-slip silicone mat is supplied as standard		
Maximum continuous operation time	168 hours.	24 hours.
Time setting range for ❶ ❷	—	0-250 sec.
Time setting range for ❸	—	0-5 sec.
Number of cycles	—	0-125 times
Maximum load	1 kg	
Overall dimensions (W × D × H)	235 × 235 × 140 kg	
Weight	1.2 kg	1.8 kg
Input current/power consumption	12 V, 260 mA/3.1 W	12 V, 380 mA/4.6 W
External power supply	Input AC 100-240 V, 50/60 Hz; Output DC 12 V	

ACCESSORIES FOR THE STANDARD PLATFORM:

Optional dimpled mat **PDM** prevents different size tubes from rolling around the platform

PDM, dimpled mat



Multi Bio 3D with PDM mat



ORDERING INFORMATION:

3D with stand, platform **Bio PP-4S**

Multi Bio 3D with stand, platform **Bio PP-4S**

Optional accessories:

PDM dimpled mat

Cat. number



BS-010151-AAG

BS-010125-AAG

PDM