

Grant bio

Rotator PS-3D

Operating instructions

For version V.2GW



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1. Safety

The following symbol means:



Caution! Read these operating instructions fully before use and pay particular attention to sections containing this symbol.

GENERAL SAFETY

- ☞ Operation of the unit must be carried out according to the given instruction manual.
- ☞ The unit should be saved from shocks and falling.
- ☞ The unit must be stored and transported only in a horizontal position (see marking on the package).
- ☞ After transport or storage dry out the unit (2-3 hrs) before connecting it to the supply voltage.
- ☞ Before using any cleaning or decontamination method except those recommended by the manufacturer, user should check with the manufacturer that the proposed method will not damage the equipment.
- ☞ Do not make modifications in design of the unit.

ELECTRICAL SAFETY

- ☞ Connect only to a power supply with a voltage corresponding to that on the serial number label.
- ☞ Only use the external power supply unit provided with this product.
- ☞ Ensure that the power switch and external power supply connector are easily accessible during use.
- ☞ Before moving, disconnect from the mains.
- ☞ To turn off the unit, disconnect the external power supply from the mains outlet.
- ☞ If liquid is spilled inside the unit, disconnect it from the external power supply and have it checked by a competent person.

DURING OPERATION

- ☞ Do not impede the platform motion during operation.
- ☞ Do not operate the unit in environments with aggressive or explosive chemical mixtures.
- ☞ Do not operate the unit if it is faulty or been incorrectly installed.
- ☞ For indoor use only.
- ☞ Do not use outside laboratory rooms.
- ☞ Do not place a load exceeding maximum loading mentioned in p. Specifications.

BIOLOGICAL SAFETY

- ☞ It is the user's responsibility to carry out appropriate decontamination if hazardous material is spilled on or inside the equipment.

2. General Information

The PS-3D rotator has been designed to enable up to 7 days reliable continuous operation. It is suitable for a variety of applications including blood sample mixing, minigel staining / destaining washes and blot hybridizations.

The PS-3D provides three-dimensional smooth rotation. Units are supplied with a standard platform with a non-slip rubber mat. Accessory tube adaptors are available to accommodate 26 tubes with diameter up to 11 mm or choose the versatile dimpled mat adaptor to accommodate a variety of tube sizes.

The PS-3D rotator is a compact device with a low energy consumption.

3. Getting started

3.1 Unpacking

Remove packing materials carefully, and retain for future shipment or storage of the unit.

3.2 The Rotator set includes:

Standard set

- Rotator PS-3D 1 piece
- A platform with a rubber mat 1 piece
- An external power supply 1 piece
- Operating instructions; CE Certificate 1 copy

Optional accessories

- PTP-26 Tube adaptor for 26 tubes of up to 11mm diameter 1 piece
- PDM Dimple mat 1 piece

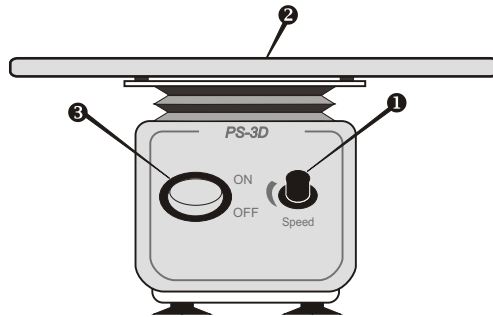
3.4 Set up:

- Place the unit on the horizontal even working surface;
- Plug the external power supply into the 12 V socket at the rear side of the unit.

3.5 Platform installation

Install the platform by inserting the pins on the underside of the platform into the holes on the supporting platform on the shaker.

4. Operation of PS-3D



- 4.1 Connect the external power supply unit to the mains socket.
- 4.2 Place samples on the unit platform (❷).
- 4.3 Switch **On** the **Power** switch (❸).
- 4.4 Use the speed control knob (❶) to adjust the shaking speed to the required setting.
- 4.5 At the end of operation set speed using the regulator knob to the minimum.
- 4.6 Switch **Off** the **Power** switch.
- 4.7 Disconnect the external power supply from the mains socket.

5. Specifications

5.1 Rotator provides:

- smooth *3D rotation* of the platform
- even amplitude across the whole platform of Rotator;

5.2 Operating conditions

The unit is designed for operation in cold rooms, incubators and closed laboratory rooms at ambient temperature from +4°C to +40°C and maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.

5.3 Specifications

- **Speed control range**5-60 RPM
- **Fixed tilt angle**7°
- **Maximum continuous operation time**168 hrs
- **Maximum loading**.....0.5 kg
- **Platform working area**200x200 mm
- **Dimensions with platform (WxDxH)**235x235x140 mm
- **Input current/power consumption**.....12V, 260 mA / 3.1 W
- **External power supply** input AC 100-240 V 50/60Hz, output DC 12V
- **Weight with external power supply, not more**1.4 kg

Optional accessories	Description
Adapter PTP-26	for 26 tubes (up to 11 mm diameter)
PDM	Dimpled mat to prevent different size tubes from rolling

Grant is committed to a continuous programme of improvement, specifications may be changed without notice.

6. Guarantee and Service

6.1 **Guarantee**

When used in laboratory conditions and according to these working instructions, this product is guaranteed for TWO YEARS against faulty materials or workmanship.

6.2 **Service**

For service, return for repair to our Service Department in the UK or, in other countries, to our distributor.

Declaration of Conformity

Manufacturer:	BIOSAN LTD. Ratsupites 7, build.2, Riga, LV-1067, Latvia
Equipment name/type number:	PS-3D
Description of Equipment:	Rotator
Directives:	EMC Directive 2004/108/EC Low Voltage Directive 2006/95/EC

Applied Standards	
Harmonized Standards:	<u>EN 61326-1:</u> Electrical equipment for measurement, Control and laboratory use - EMC requirements General requirements <u>EN 61010-1:</u> Safety requirements for electrical equipment for measurement, control and laboratory use General requirements

I declare that this apparatus conforms to the requirements of the above Directive(s)


.....
Svetlana Bankovska
Executive Director
Biosan Ltd.

Dated 06.04.2011.....

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