

**Grant bio**

# **Rocker PMR-30**

*Operating instructions*

*For version V.2GW*



Dominique DUTSCHER SAS

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# 1. Safety

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The following symbol means:



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

## GENERAL SAFETY

- ☞ Use only as specified in the operating manual provided.
- ☞ The unit should be saved from shocks or drops.
- ☞ The unit must be stored and transported in a horizontal position (see package label).
- ☞ After transport or storage in humid conditions allow the unit to dry out (2-3 hrs) before connecting to the supply voltage.
- ☞ Before using any cleaning or decontamination method except those recommended by the manufacturer, check with the manufacturer that the proposed method will not damage the equipment.
- ☞ Do not make modifications to the 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 spilt 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 spilt on or inside the equipment.

## 2. General Information

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The Rocker PMR-30 has been designed to enable up to 7 days reliable continuous operation.

The Rocker PMR-30 provides regulated gentle rocking motion for mixing of samples in vessels placed on the platform. The Rocker PMR-30 is an extremely quiet compact unit fitting neatly in the limited workspace. Ideal for personal use. The unit is designed for mixing of samples.

The Rocker PMR-30 is ideal for minigel destaining after electrophoresis, conducting reactions of Northern, Southern and Western blots, washes. The unit is applicable in all the areas of biomedicine, biotechnology and microbiology laboratory research.

## 3. Getting started

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### 3.1 Unpacking

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

### 3.2 The PMR-30 set includes:

#### Standard set

- Rocker PMR-30.....1 piece
- Removable platform .....1 piece
- Rubber mat .....1 piece
- Power adapter .....1 piece
- Operating instructions; CE Certificate .....1 copy

#### Optional accessories

- PTP-26 tube adaptor.....1 piece
- PDM dimpled mat .....1 piece

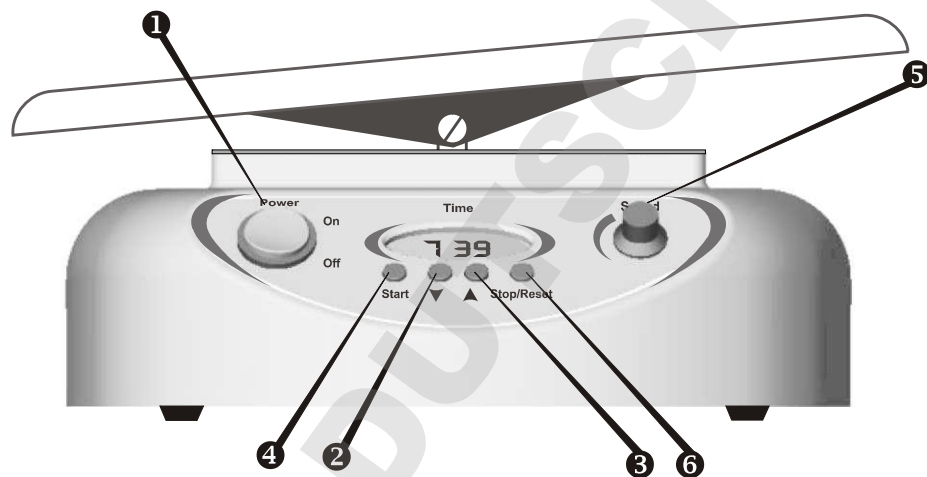
### 3.3 Set up:

- 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.

### 3.4 Platform installation

Install the platform fitting the pins on the bottom side of the platform into the holes on the moving base.

## 4. Operation of PMR-30



- 4.1. Connect the external power supply unit to the mains.
- 4.2. Place samples on the platform.
- 4.3. Switch **On** the **Power** switch (1) (the timer display (Fig.1/3) will light).
- 4.4. Using ▲ and ▼ keys (2 and 3) set the working time with the help of the display. The set time is displayed in hours and minutes (hh:mm).
- 4.5. Press **Start** key (4). The platform begins rocking movement and the timer starts counting up the set time interval. Timer display shows actual elapsed time: till 1 hour - in minutes and seconds (min:sec), after 1 hour - in hours and minutes (hh:mm).
- 4.6. Using **Speed** knob (5) set the speed of the platform rocking (recommended by the methodical prescriptions).
- 4.7. After the set time interval has expired the platform movement stops and the set working time is shown on the timer display.

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- 4.8. To repeat the procedure with the same working time and speed press **Start** key.
  - 4.9. If necessary unit can be stopped before the set time has expired by pressing the **Stop** key (⏻). For 20 seconds the timer display will show the unit operation time, after that - the set time.
  - 4.10. If the **Stop** key is pressed for more than 3 seconds the set time will be deleted.
  - 4.11. If the working time is not set (or deleted) and the display shows 00:00, pressing the **Start** key will cause the unit to operate continuously until the **Stop** key is pressed.
  - 4.12. At the end of work turn the **Power** switch to the **Off** position. Disconnect the external power supply unit from the mains.



## 5. Specifications

### 5.1 Rocker should provide:

- Soft rocking of the platform with a constant amplitude;
- Smooth regulation of the rocking speed;
- Indication and setting of the operating time;
- Interruption of the operation at any moment;
- The display of the current operation time.

### 5.2 Specifications

The product is designed for operation indoors in a laboratory at altitudes up to 2000 m, with 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.

- Speed control range .....5 - 30 oscill/min
- Fixed tilt angle .....7°
- Digital time setting .....1 min - 24 hrs / non-stop
- Maximum continuous operation time .....168 hrs
- Maximum loading .....0,5 kg
- Platform working area .....200 x 200 mm
- Dimensions .....220x205x120 mm
- Input current/power consumption .....12V, 320 mA / 3,8 W
- External power supply ..... input AC 100-240 V 50/60Hz, output DC 12V
- Weight with external power supply, not more .....2.5 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

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### 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:	PMR-30
Description of Equipment:	Rocker
Directives:	EMC Directive 2004/108/EC Low Voltage Directive 2006/95/EC

Applied Standards	<u>EN 61326-1:</u> Electrical equipment for measurement, control and laboratory use - EMC requirements General requirements
Harmonized Standards:	<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 06.09.2011

## Grant bio

**Grant Instruments  
(Cambridge) Ltd**

Shepreth

Cambridgeshire

SG8 6GB

UK

Tel: +44 (0) 1763 260811

Fax: +44 (0) 1763 262410

Email: [scientificsales@grantinstruments.com](mailto:scientificsales@grantinstruments.com)

[www.grantinstruments.com](http://www.grantinstruments.com)

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