



BioAmerica Mini Centrifuge

BioAmerica Mini Centrifuge

Model: WD-2105ABA

USER'S GUIDE

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Important Notice

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Safety Precautions

Thank you for choosing BioAmerica Equipments. We recommend that you read these instructions carefully before the first use.

This equipment is for indoor laboratory use only. Do not use it for purposes other than those for which it is intended.

This user's guide is part of the product. If the guide is lost, check our website for an electronic version or contact us.

Applications

The Mark I BioAmerica Mini Centrifuge is ideal for microfiltration, cell separation and quick spin down from walls and caps of microtubes in training and research laboratories of universities, hospitals and scientific research institutions.

The Mark I BioAmerica Mini Centrifuge is supplied with rotor heads and adapters to accommodate 0.2ml, 0.5ml and 1.5ml tubes. The Mark I BioAmerica Mini Centrifuge has two rotor heads, one for microtubes and one for 0.2ml PCR strips and individual tubes. The 6 X 1.5ml rotor head is designed to centrifuge up to six individual 1.5ml plastic microtubes. It will also accept 0.2ml and 0.5ml tubes with the adapters supplied with the apparatus. The strip tube rotor head is designed to centrifuge two lines of 8 X 0.2ml PCR strips tubes and it will also accept up to 16 individual 0.2ml tubes. The standard and strip tube rotor heads are easily interchangeable.

The translucent lid pivots on a durable stainless steel hinge pin. Pressing on the reinforced tab on the front of the apparatus releases the lid. A switch on the side of the mini centrifuge starts and stops the run.

Specifications

- ✓ Power supply: 220V, 50Hz or 110V, 60Hz
- ✓ Fuse: 0.5A, 250V;
- ✓ Speed: 5,500 – 6,000 rpm;
- ✓ Max relative centrifugal force (RCF): 2,000 x g;
- ✓ Sample volume: 6 x 1.5ml / 0.5ml / 0.2ml
2 x 8 x 0.2ml (PCR strip tubes);
- ✓ Dimensions (L x W x H): 189 x 161 x 122mm;
- ✓ Net weight: 1kg.

Physical Description

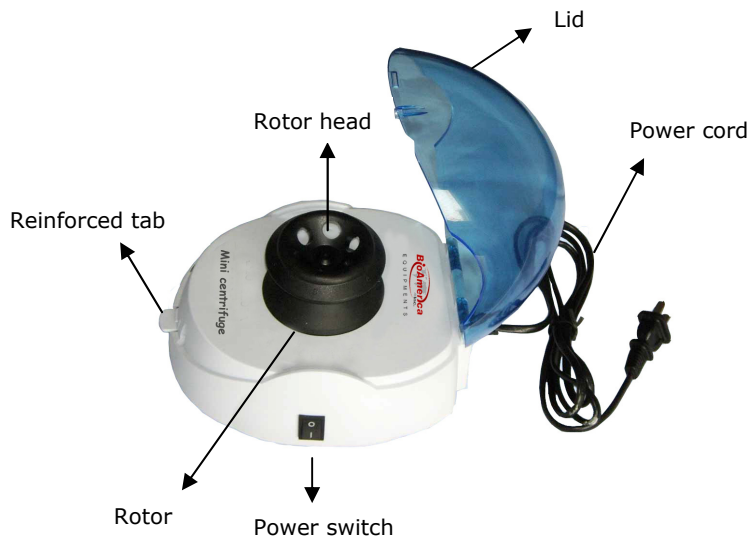


Image 1: Mini Centrifuge

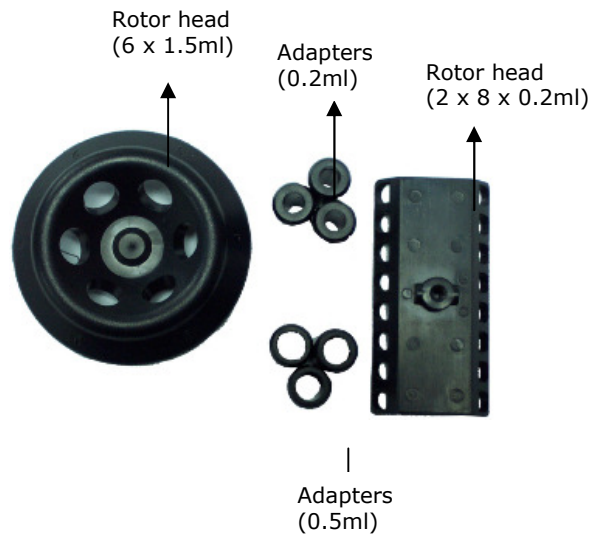


Image 2: Rotor heads and adapters

Operation Instructions

Before operating the centrifuge, make sure that the power switch is in the "OFF" position. To begin a run, simply close the lid of the mini centrifuge, press the lid softly until you hear a clicking sound. Then, move the power switch to the "ON" position. No other controls are required and the apparatus begins running. To stop the run, move the power switch to the "OFF" position.

Open the lid by pressing on the reinforced tab on the front of the device and swinging it upwards.

Caution:

1. Do not attempt to open the lid or remove samples until the rotor has come to a complete stop
2. Safe operation of the mini centrifuge requires that the rotor head be loaded in a balanced setup. Failure to properly load the rotor head presents a hazardous condition and may damage the apparatus. Individual tubes, strip tubes and / or adapters must always be loaded symmetrically to ensure proper balance. Combined use of different sized tubes will not provide adequate balance, and may cause damage to the device. Usage in such a way is not recommended.

Replacing rotor heads

The Mark I BioAmerica Mini Centrifuge is supplied with two interchangeable rotor heads. The rotor heads are easily replaced using the 1.5mm hex wrench tool provided with the apparatus.

✓ **Removing the rotor head:**

Place the Mark I BioAmerica Mini Centrifuge on a level surface. Using the hex wrench tool, loosen the screw on the rotor shaft and pull up the rotor head to remove it

Note: Do not move the rotor head horizontally while you pull it up as it will damage the apparatus.

✓ **Installing the rotor head:**

Place the rotor head on the rotor shaft, and press on it lightly.

Tighten the screw using the hex wrench. Do not over tighten as it will damage the rotor head and rotor shaft.

Important Safety Information

- ✓ A safety distance of 30 cm should be observed around the mini centrifuge during the operation. No objects which may cause additional damage in the event of a centrifuge failure should be placed within this area;
- ✓ Before connecting the mini centrifuge to the power source, compare your power source with the electrical requirements printed on the label on the bottom of the apparatus. Make sure that the power switch is in the "OFF" position;
- ✓ Before starting the mini centrifuge for the first time, make sure that the rotor head is securely fastened;
- ✓ Mark I BioAmerica Mini Centrifuge may be used for the specified applications only. It should not be operated in a hazardous or flammable environment and should not be used to centrifuge explosive or highly reactive substances;
- ✓ The rotor must be loaded symmetrically. Each tube should be counterbalanced by another tube, opposing tubes should be filled equally, and weight of individual tubes may not exceed of 3.0g;
- ✓ Never fill tubes while they are in the rotor head, liquid spillage may harm the apparatus;
- ✓ Use only microcentrifuge tubes made from plastic and designed to withstand centrifugal force of at least 2,000 X g;
- ✓ During the run, if you find that the noise level is too high or there is abnormal noise, stop the run immediately by moving the power switch to the "OFF" position;
- ✓ Make sure that the rotor is protected from corrosion and mechanical damage. Even slight scratches and cracks will cause severe inner damage to the rotor;
- ✓ Do not move the mini centrifuge during the run;
- ✓ Do not place your hands in the rotor area;
- ✓ Never start a run before the lid of the mini centrifuge is securely fastened.

Mark I BioAmerica Mini Centrifuge Components & Accessories

| Catalog Number | Description |
|-----------------------|----------------------------------|
| WD-2105ABA | Mini Centrifuge x 1 unit |
| MCA4705102BA | Adapter for 0.5ml tube x 8 units |
| MCA4705103BA | Adapter for 0.2ml tube x 8 units |
| MCA4705104BA | 2x8 x 0.2ml rotor head x 1 unit |
| MCA4705105BA | 6 x 1.5ml rotor head x 1 unit |
| MCA4705106BA | 1.5mm hex wrench tool x 1 unit |
| MCA3260001BA | Power cord |
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Daily Maintenance

The rotor head and body of Mark I BioAmerica Mini Centrifuge should be cleaned regularly with a moist cloth and a mild, noncorrosive detergent (ph 7 ± 1). For disinfection purpose, use an alcohol-based disinfectant (70% propanol / water mixture). Do not use bleach or any alkaline decontaminating solution. After cleaning, make sure that all parts are dried thoroughly before attempting to operate the apparatus.

Do not immerse the centrifuge in liquid or pour liquid over it.

Note: Before you clean the apparatus, make sure that the centrifuge is disconnected from the power source.

Services and Support

If you have a question about the apparatus or require service for the apparatus, please contact us. Do not send in the device for service without first obtaining a repair authorization. When returning the apparatus, make sure it has been completely decontaminated and properly packed to avoid damage.



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Warranty

BioAmerica Inc. guarantees that this unit is free of any defective material and workmanship for a period of 12 months from the date of the invoice or under sales contract conditions. This warranty covers the centrifuge and rotor. BioAmerica Inc. will repair or replace the defective equipment returned during the warranty period free of charge if the equipment has been used under normal laboratory conditions and in accordance with the instruction in this guide. The following defects are specifically excluded:

1. Damage caused by accident, accidental misuse or abuse;
2. Damage caused by disaster;
3. Repair or modification by anyone else without our authorization;
4. Defects caused by improper operation;
5. Corrosion due to the cleaning with improper solution;
6. Use of fittings or other spare parts not specified by BioAmerica Inc for this unit.

A return authorization must be obtained before returning any product for repair on a freight-prepaid basis.

BioAmerica Inc. reserves the right to alter the specification or modify any component of its products without prior notice, in order to improve their quality and better serve its customers.

For any inquiry or request for repair service, contact BioAmerica Inc. providing us with model and serial number of your instrument.

This warranty does not apply to fuses.

Contact us

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