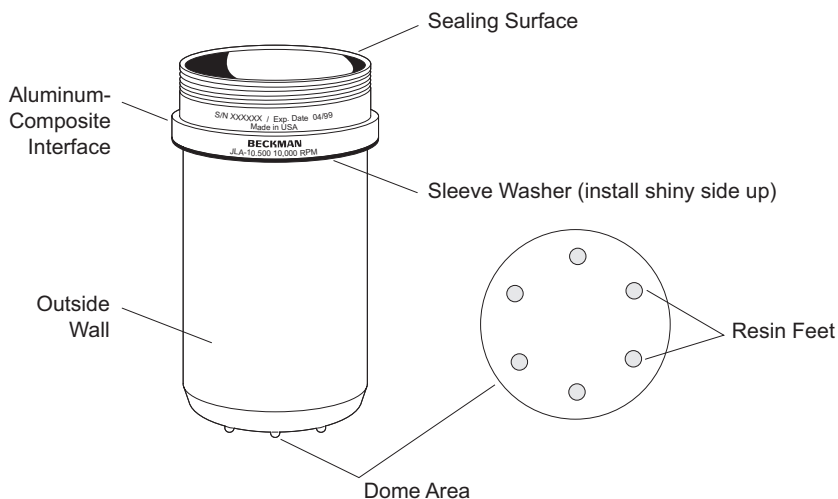


Instructions for Using J-Lite™ JLA-10.500 Rotor Composite Cannisters

This document contains information specific to the JLA-10.500 carbon fiber epoxy composite cannisters.¹ See the JLA-10.500 Rotor Instruction Manual (publication J-TB-048) for complete rotor usage and maintenance instructions.



JLA-10.500 Cannister

LOADING INSTRUCTIONS

SIX CANNISTERS MUST BE RUN AT ALL TIMES, WHETHER LOADED OR EMPTY.

- Make sure that cannisters loaded in opposite positions on the rotor body weigh within ten grams of each other.
- Do not exceed the maximum sample load for any single cannister (665 grams, including labware and sample).

INFORMATION ABOUT CARBON FIBER EPOXY COMPOSITE CANNISTERS

*Each cannister has an expiration date (see the Figure). **Do not use the cannister after this date.** This is the date on which the cannister's 7-year warranty expires.*

The carbon fiber epoxy composite material used in these cannisters is extremely strong, and ideally suited to the high stresses produced by centrifugal force. The cannisters will retain their strength throughout their 7-year life, but will exhibit certain cosmetic changes with time.

¹ Patent pending.

After several hundred centrifuge run cycles, surface cracks may appear in the dome area of the cannister (see the Figure) and may increase in number with continued use. Surface cracks are not uncommon in carbon fiber components, and do not affect the structural integrity of the cannister. However, cracks or other damage on the outside wall, the composite-aluminum interface, or the sealing surface should be inspected by your Beckman Coulter representative.

Repeated autoclaving of the cannisters may cause the following conditions (all of which are cosmetic) during the 7-year warranty period:

- an increase in the number of surface cracks in the dome area,
- increased visibility of existing surface cracks,
- a change in cannister color due to oxidation of the epoxy, and
- formation of a white, powdery residue on the outside wall of the cannister; this residue can be wiped off with a soft, damp cloth.

CLEANING, DISINFECTION, AND DECONTAMINATION

- Clean the cannisters with a mild detergent solution such as Beckman Solution 555™ (diluted 10 to 1 with water) and a soft brush. Rinse thoroughly with water and air-dry. *Do not use acetone on the cannisters at any time.*
- The cannisters can be autoclaved at 121°C for 30 minutes. Ethanol (70%)² and hydrogen peroxide (6%) may be used. Use the minimum immersion time, per laboratory standards.
- For radioactive decontamination of the cannisters, RadCon Surface Spray³ and Radiacwash⁴ can be used. Do not soak the cannisters; use the minimum immersion time for each solution, as specified by the solution manufacturers.

INSPECTION AND MAINTENANCE

- Before each use, inspect the cannisters for deep cracks. If any cracking or other damage is visible on the outside wall or near the aluminum-composite interface area, or if carbon fiber threads are visible, *do not use the cannister*. Contact your Beckman Coulter representative.
- Each cannister has a plastic washer beneath the aluminum sleeve (see the Figure), which acts as a cushion between the cannister sleeve and the aluminum rotor body. Before each use, check to make sure that this washer is securely in place. If the washer becomes loose, press it back in place with your finger. If it comes off the cannister, replace it with the *shiny side up*.
- If a crack or blemish appears on the cannister surface after the cannister is dropped from a height of several feet or if it strikes a sharp edge of a bench or table, the cannister should be returned to Beckman Coulter for inspection. Include a written explanation of the reason for return.
- Check the O-ring inside the closure before each use to make sure that it is in good condition, and lightly lubricate it with silicone vacuum grease. Replace it if it is damaged.
- Inspect the sealing surface (see the Figure) to make sure that it is smooth and undamaged. Deep gouges in this surface may prevent the closure O-ring from achieving a tight seal.
- Before a cannister is returned to Beckman Coulter for any reason, it must be sterilized and decontaminated at the customer site. *All parts must be accompanied by a note, plainly visible on the outside of the box or bag, stating that they are safe to handle and that they are not contaminated with pathogens or radioactivity. Failure to attach this notification will result in return or disposal of the items without review of the reported problem.*

² Flammability hazard. Do not use in or near operating centrifuges.

³ In U.S.A., contact Nuclear Associates (New York); in Eastern Europe and Commonwealth States, contact Victoreen GmbH (Munich); in South Pacific, contact Gammasonics Pty. Ltd. (Australia); in Japan, contact Toyo Medic Co. Ltd. (Tokyo).

⁴ In U.S.A., contact Biodex Medical Systems (Shirley, NY); internationally, contact the U.S. office to find the dealer nearest you.

JLA-10.500 ROTOR WARRANTY

Subject to the conditions specified below and the warranty clause of the Beckman Coulter, Inc., terms and conditions of sale in effect at the time of sale, Beckman Coulter agrees to correct either by repair, or, at its election, by replacement, any defects of material or workmanship which develop within seven (7) years after delivery of the JLA-10.500 rotor to the original buyer by Beckman Coulter or by an authorized representative, provided that investigation and factory inspection by Beckman Coulter discloses that such defect developed under normal and proper use. Should a Beckman Coulter centrifuge be damaged due to a failure of a rotor covered by this warranty, Beckman Coulter will supply free of charge all centrifuge parts required for repair.

REPLACEMENT

Any product claimed to be defective must, if requested by Beckman Coulter, be returned to the factory, transportation charges prepaid, and will be returned to Buyer with the transportation charges collect unless the product is found to be defective, in which case Beckman Coulter will pay all transportation charges.

A defective rotor will be replaced by Beckman Coulter at its then current list price less a credit based upon the age of the rotor (years since date of purchase). The Buyer shall not receive credit until the claimed defective rotor is returned to Beckman Coulter's Indianapolis, Indiana facility or delivered to a Beckman Coulter Field Service representative.

The replacement price (cost to Buyer) for the respective rotor shall be calculated as follows:

$$\text{Replacement price} = \text{Current rotor list price} \times \frac{\text{years}}{7}$$

CONDITIONS

1. Except as otherwise specifically provided herein, this warranty covers the JLA-10.500 rotor only and Beckman Coulter shall not be liable for damage to accessories or ancillary supplies including but not limited to (i) tubes, (ii) tube caps, (iii) tube adapters, or (iv) tube contents.

2. This warranty is void if the rotor has been subjected to customer misuse such as operation or maintenance contrary to the instructions in the Beckman Coulter rotor or centrifuge manual.
3. This warranty is void if the JLA-10.500 rotor is operated with a rotor drive unit or in a centrifuge unmatched to the rotor characteristics, or is operated in a Beckman Coulter centrifuge that has been improperly disassembled, repaired, or modified.
4. Each JLA-10.500 cannister, whether purchased with a rotor assembly or purchased separately, is covered by this warranty for seven (7) years from the date of purchase, and will be replaced or repaired during such period according to the terms and conditions of this warranty. The date of manufacture marked on the cannister may be earlier than the date of purchase, and the expiration date marked on the cannister, which is seven (7) years after the date of purchase, may be correspondingly offset.
5. JLA-10.500 cannisters should not be used after the expiration date marked on the cannister. If at the time of purchase the marked expiration date is less than 7 years from the date of purchase, the expiration date becomes the date of purchase plus seven (7) years. Use of a cannister after such expiration date voids Beckman Coulter's warranty obligations with respect to any rotor and/or centrifuge in which such a cannister is used.

DISCLAIMER

IT IS EXPRESSLY AGREED THAT THE ABOVE WARRANTY SHALL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND OF THE WARRANTY OF MERCHANTABILITY AND THAT BECKMAN COULTER, INC., SHALL HAVE NO LIABILITY FOR SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER ARISING OUT OF THE MANUFACTURE, USE, SALE, HANDLING, REPAIR, MAINTENANCE, OR REPLACEMENT OF THE PRODUCT.



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