Instruction For Use

1L HarvestLine System Liners

For Use with JLA-8.1000 and JLA-9.1000 Rotor Assemblies

PN J-TB-093BD
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Beckman Coulter, Inc.
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BECKMAN COULTER

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Contact Us
If you have any questions, contact our Customer Support Center.

- Worldwide, find us via our website at www.beckman.com/support/technical
- In the USA and Canada, call us at 1-800-369-0333.
- Outside of the USA and Canada, contact your local Beckman Coulter Representative.

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Glossary of Symbols is available at beckman.com/techdocs (PN C24689).

Original Instructions

Revision History

This document applies to the latest listed and higher versions. When a subsequent version changes the information in this document, a new issue will be released to the Beckman Coulter website. For updates, go to beckman.com/techdocs and download the latest version of the manual or system help for your instrument.

Issue BC, 04/18
Changes or additions were made to: Safety Notice; Introduction; HarvestLine Related Accessories; Operating Specifications; Instructions for Use; Maintenance.

Issue BD, 06/20
Changes or additions were made to: *HarvestLine Symbols/Regulatory Marks*; *Introduction*; *Operating Specifications*; *Instructions for Use*.

Note: *Changes that are part of the most recent revision are indicated in text by a bar in the margin of the amended page.*

Safety Notice

Read all product manuals and consult with Beckman Coulter-trained personnel before attempting to operate instrument. Do not attempt to perform any procedure before carefully reading all instructions. Always follow product labeling and manufacturer's recommendations. If in doubt as to how to proceed in any situation, contact your Beckman Coulter Representative.

Alerts for Danger, Warning, Caution, Important, and Note

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. May be used to indicate the possibility of erroneous data that could result in an incorrect diagnosis.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. May be used to indicate the possibility of erroneous data that could result in an incorrect diagnosis.

IMPORTANT IMPORTANT is used for comments that add value to the step or procedure being performed. Following the advice in the Important adds benefit to the performance of a piece of equipment or to a process.

NOTE NOTE is used to call attention to notable information that should be followed during installation, use, or servicing of this equipment.

Symbols Glossary

Symbols used in the HarvestLine System Liners labeling are provided in the table below.

HarvestLine Symbols/Regulatory Marks

Symbol	Reference[a]	Title - Symbol/ Regulatory Mark	Meaning
	ISO 15223-1, Clause 5.1.6	Catalogue or model number	Indicates the manufacturer's catalogue number so that the medical device can be identified.
	ISO 15223-1, Clause 4.1.5	Batch code	Indicates the manufacturer's batch code so that the batch or lot can be identified
	ISO 15223-1, Clause 5.2.8	Do not use if package is damaged	Indicates a medical device that should not be used if the package has been damaged or opened.
	ISO 15223-1, Clause 5.2.4	Sterilized using irradiation	Indicates a medical device that has been sterilized using irradiation.

a. Official Standard Reference Title: Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied

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1L HarvestLine System Liners

Introduction

1L HarvestLine System Liners are for use with the Beckman Coulter JLA-8.1000 and JLA-9.1000 rotor assemblies.

Description	Part Number
Liner, 1L, JLA-8/9.1K, (Qty 120), non-sterile	369256
Liner, 1L, JLA-8/9.1K, (SET OF 6), non-sterile	C15216
Liner, 1L, JLA-8/9.1K, (SET OF 6), sterile[a]	C15217

a. The gamma sterilization process causes the liners to yellow slightly, but does not affect their performance.

HarvestLine Related Accessories

Description	Part Number
Filling rack (stainless steel)	368740
Funnel (polyethylene)	977472

NOTE If a fermentor hose is used to load sample into the liners instead of the funnel provided, a plastic hose adapter must be used to facilitate insertion and removal of the hose into the liner. A hose adapter is not provided, however, a 10-mL disposable serological pipette (polystyrene or polypropylene) with the conical end cut off can be used.

Operating Specifications

Maximum speed and *g*-force for polycarbonate bottles A98812 and C31600
in the JLA-8.1000 rotor . . . . . 8000 rpm, 15,970 × *g*
in the JLA-9.1000 rotor . . . . . 9000 rpm, 16,800 × *g*

Maximum speed and *g*-force for polypropylene bottles A98813 and C31597
in the JLA-8.1000 rotor . . . . . 8000 rpm, 15,970 × *g*
in the JLA-9.1000 rotor . . . . . 9000 rpm, 16,800 × *g*

Run time . . . . . .up to 20 min. instrument set time

Temperature range. . . . . 4 to 10 °C instrument set temperature

Acceleration and deceleration . . . . . up to instrument maximum settings

Post centrifugation storage temperature . . . . . .-80° C

NOTE The JLA-8.1000 and JLA-9.1000 HarvestLine system liners are a component of a total labware system. The liners use a patented valve that helps prevent escape of material from the liners. These liners have been tested under the operating specifications listed above. Exceeding these recommended operating specifications may result in leakage of material from the liners.

Use of the HarvestLine system liners does not preclude following good laboratory safety practices. Consult your laboratory safety officer for the proper safety procedures.

Description

The HarvestLine System (Figure 1) for the Beckman Coulter JLA-8.1000 and JLA-9.1000 rotors provides a convenient method of loading, recovering, and storing samples run in these rotors. Up to six rotor bottles are placed in the filling rack, and a liner is placed into each bottle. The liners are loaded with sample through a funnel or fermentor hose. The valve in the neck of each liner is then sealed and the liner necks folded to fit inside the bottles. The bottles are sealed with rotor plugs and cap/closures, and the sealed bottles are placed into the rotor cannisters for centrifugation. After centrifugation, the liner valves are cut off and the supernatant decanted, either for storage or disposal. The liners can then be heat-sealed for pellet storage or disposal.

Instructions for Use

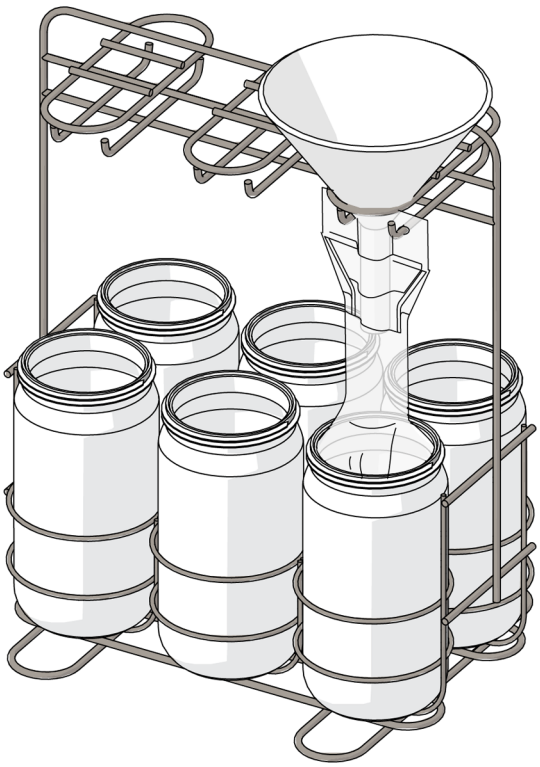
These instructions cover use of the HarvestLine system only. For complete information on use and care of the JLA-8.1000 and JLA-9.1000 rotors, see J-Lite JLA-8.1000 and JLA-9.1000 Fixed-Angle Rotor Assemblies (PN J-TB-073).

⚠ WARNING

Risk of personal injury, contamination, or property damage. Always observe appropriate cautionary procedures as defined by your safety officer. Wipe up any spills immediately. Always use appropriate Personal Protective Equipment (PPE) when handling hazardous materials.

1 Place the rack on a flat surface (see Figure 1), and place all of the bottles to be filled into the rack.

Figure 1 The HarvestLine System for the JLA-8.1000 and JLA-9.1000 Rotors



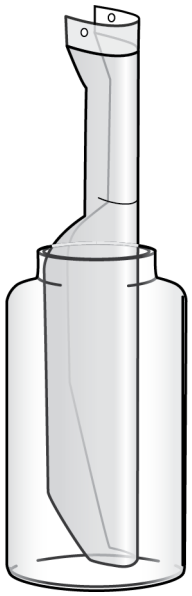
2 Remove a liner from the packaging.

Open the valve in the liner neck by pulling the neck apart, using both hands.

3 Loosely fold the liner lengthwise, forming a "U" shape.

Place the folded liner into a bottle with the Beckman Coulter logo facing outward (toward the operator) (See Figure 2).

Figure 2 Loosely folded liner inserted in bottle



4 Place the two holes in the top of the liner over the hooks on the rack.

For best results, place the holes just over the hooks, stopping at the bend. Do not push the liner back towards the center of the rack.

5 Repeat Steps 2, 3, and 4 for each liner.

⚠ WARNING

Risk of personal injury or contamination. Do not allow the liner to overflow. Clean up any spills immediately according to the procedures defined by your laboratory safety officer.

6 If filling the liners with a:

Fermentor hose:

a. Insert a plastic adapter into the end of the hose to facilitate insertion and removal.

b. Place the hose directly into each liner, with the adapter tip just below the base of the valve.

Do not insert the adapter and hose further into the liner, as significant wetting of the valve may occur, which may affect its ability to seal the liner without leakage.

c. Pour sample into the liner via the fermentor hose until it reaches the blue maximum fill line.

Funnel:

a. Place the funnel on the rack and insert the stem of the funnel into the liner.

b. Pour sample into the funnel and into the liner until it reaches the blue maximum fill line.

TIP Pick a consistent reference point on the fill line, such as the apex of the arc, and fill all liners to that point.

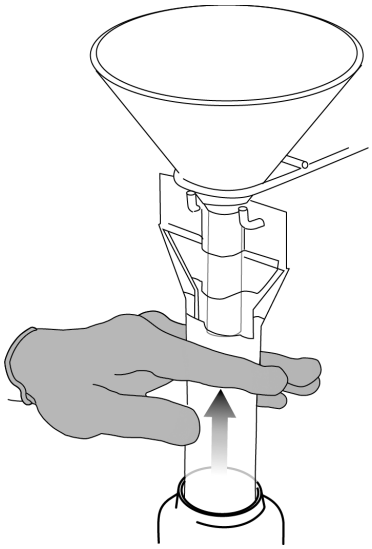
⚠ WARNING

Risk of contamination. Removing the funnel or fermentor hose poses a potential spill hazard. Wipe up any spills immediately according to the procedures outlined by your laboratory safety officer.

7 Remove residual air from the liner.

a. Use your middle and index finger to grip the liner neck above the fill line, and sliding them up the liner neck until they reach the valve (see Figure 3).

Figure 3 Slide fingers up the liner neck to remove residual air



b. Remove the hose or funnel from the liner.

c. Hold the valve closed with your fingers and lift the bottle and liner off the filling rack.

8 Remove the bottle from the rack and place it on a flat surface.

9 Check the weight of each load (bottle containing filled liner) before centrifugation to ensure that all loads for a specific run balance to within 30 grams.

NOTE Repeat steps 6 through 9 to balance the loads.

10 Fold the liner neck and press it into the bottle on top of the liner, tucking in the corners.

11 Insert plug, ensuring the liner is not caught in the seal.

IMPORTANT It is important that the cap/closure be tightened to a minimum torque of 60 in*lbs. to ensure the bottle assembly seal performs as designed and prevents seal loss and/or leaks.

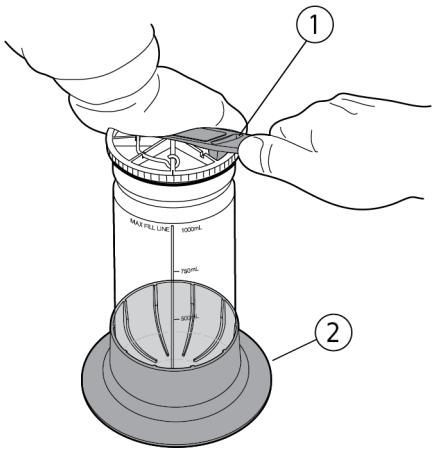
NOTE To ensure the caps are accurately torqued, the 1000mL Bottle Torque Tool Kit (PN C24141) can be ordered and used in conjunction with a 3/8" drive torque wrench. Beckman Coulter's torque wrench option is PN 858121 and is compatible with the 1000 mL Bottle Torque Tool Kit.

12 Place a cap/closure on the bottle and hand-tighten the cap/closure as tightly as possible (see Figure 4).

In addition, tool Kit 366770, consisting of a bottle grip and a wrench, is available to assist in tightening and loosening the cap/closures—see Figure 4.)

The bottle grip can also be used by itself to hold the bottle as you tighten the cap/closure.

Figure 4 Tightening the Cap/Closure



1. Wrench
2. Bottle Grip

13 Place the bottle into the rotor per the rotor and bottle instructions for centrifugation.

14 After centrifugation, unscrew the cap/closure and remove the plug from the bottle.

Unfold the liner neck up out of the bottle. Cut the liner neck below the valve to extract the liner contents.

⚠ WARNING

Risk of personal injury or contamination. When draining fluid, always wear the appropriate Personal Protective Equipment (PPE) to avoid contact with any biological or chemical agents that have been used with the HarvestLine System Liners.

15 Pour off the supernatant by keeping the bottle in a slightly downward position, while holding the liner with one hand.

It is not necessary to keep a great deal of pressure on the liner to hold it in the bottle.

⚠ WARNING

Risk of personal injury and contamination. Used liners could be contaminated. Follow the appropriate disposal procedures outlined by the laboratory safety officer to dispose of the used liners.

16 Seal the liner after the supernatant has been poured off, using a heat sealer with adjustable settings to prevent cutting through the liner.

This will allow the solid contents of the liner to be disposed of in a sealed container, or stored in a freezer (–80°C).

If the pellet is needed immediately, the liner can be cut just above the pellet area and the solid pellet extracted by pushing it out of the liner in a squeezing motion.

The liners can also be heat sealed to segment the pellet for multiple analysis steps, if required

Maintenance

Cleaning

- The liners should be disposed of after a single use. Attempting to use them for multiple runs may result in leakage.
- The rack and funnel can be cleaned using a mild detergent solution, such as Solution 555 (369555). Thoroughly rinse the cleaned components with water and air-dry. *Do not use acetone to dry the components.*

Decontamination

⚠ WARNING

Risk of personal injury or contamination. If components are contaminated with radioactive, toxic, or pathogenic materials, follow appropriate decontamination procedures as outlined by your laboratory safety officer.

Sterilization and Disinfection of HarvestLine Related Accessories

⚠ WARNING

Risk of personal injury. Ethanol is a flammability hazard. Do not use it in or near operating centrifuges.

- The rack may be autoclaved at 121°C for up to an hour.
- Ethanol (70%) may be used on the rack, funnel, and bottles. Ethanol may also be used on the outside of the liners before centrifugation. See *Chemical Resistances* (publication IN-175) for more information regarding chemical compatibilities of rotors and accessories.

  While Beckman Coulter has tested these methods, no guarantee of sterility or disinfection is expressed or implied. When sterilization or disinfection is a concern, consult your laboratory safety officer.

Related Documents

Rotors and Tubes for J2, J6, and Avanti J Series Centrifuges (JR-IM-10)

- Rotors
- Tubes, Bottles, and Accessories
- Using Tubes, Bottles, and Accessories
- Using Fixed-Angle Rotors
- Using Swinging-Bucket Rotors
- Using Vertical-Tube and Rack-Type Rotors
- Care and Maintenance
- Chemical Resistances for Beckman Coulter Centrifugation Products
- Temperature Compensation Tables
- Gradient Materials
- Blood Component Separation
- References
- Glossary

Available in electronic pdf or CD-ROM by request.

Additional References

- Chemical Resistances for Beckman Coulter Centrifugation Products (IN-175)*
- J-Lite JLA-8.1000 and JLA-9.1000 Fixed-Angle Rotor Assemblies (J-TB-073)*

*Available in hard copy or electronic pdf by request. Also available at www.beckman.com/techdocs.

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