Instruction For Use

500 mL HarvestLine System Liners

C25038AA
May 2018

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BECKMAN COULTER

500 mL HarvestLine System Liners
PN C25038AA (May 2018)

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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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 www.beckman.com/techdocs and download the latest version of the manual or system help for your instrument.

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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

	Reference[a]	Title - Symbol/ Regulatory Mark	Meaning
	ISO 15223-1, Clause 5.1.2	Authorized European representative	Indicates the Authorized Representative in the European Community.
	ISO 15223-1, Clause 5.1.1	Manufacturer	Indicates the medical device manufacturer.
	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 5.4.3	Consult instructions for use.	Indicates the need for the user to consult the instructions for use. www. beckman.com/techdocs
	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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500 mL HarvestLine System Liners

Introduction

500 mL HarvestLine System Liners are for use with the Beckman Coulter 500 mL Bottles.

Description	Part Number
500 mL Liner, (SET OF 6), non-sterile	C15220
500 mL Liner, (SET OF 6), STERILE[a]	C15221

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

500 mL HarvestLine Related Accessories

Description	Part Number
Filling rack (stainless steel)	368740
Funnel (polyethylene)	977472
Adapter, HarvestLine 500 mL	C23359
Base Spacer, Harvest Liner	C23360

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.

Centrifuge Bottle Assembly Compatibility

The 500 mL HarvestLine system works in the following:

Beckman Coulter 500 mL Polycarbonate bottle configurations including:

Description	Part Number
Polycarbonate 500 mL Bottle with Screw-On Cap (set of 6)	355664
Polycarbonate 500 mL Bottle with O-ring Knurled Cap (set of 6)	361690
Polycarbonate 500 mL Bottle with Insert & Screw-On Cap (set of 6)	355605

Beckman Coulter 500 mL Polypropylene bottle configurations including:

Description	Part Number
Polypropylene 500 mL Bottle with Screw-On Cap (set of 6)	355665
Polypropylene 500 mL Bottle with O-ring Knurled Cap (set of 6)	361691
Polypropylene 500 mL Bottle with Insert & Screw-On Cap (set of 6)	355607

Operating Specifications

Refer to individual Rotor Instructions For Use for maximum speed and gforce.

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 500 mL 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.

Description

The 500 mL HarvestLine System (Figure 1) provides a convenient method of loading, recovering, and storing samples. 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

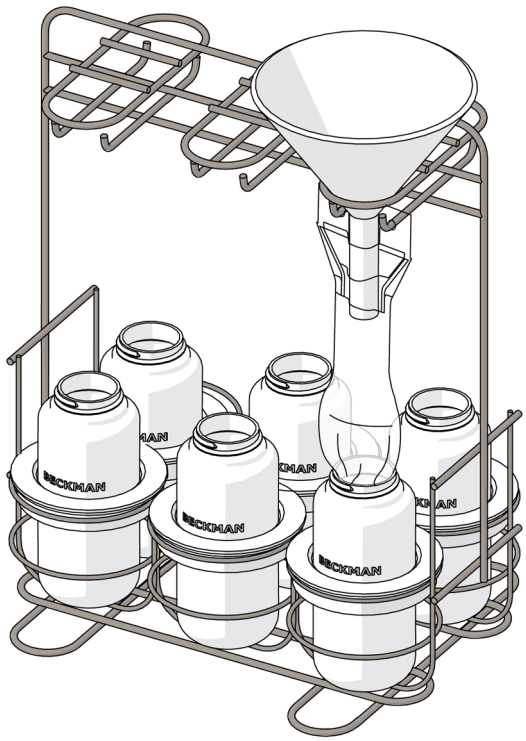
These instructions cover use of the HarvestLine system only. For complete information on use and care of your rotors, consult the rotor Instructions for Use.

⚠ WARNING

Risk of personal injury, contamination, and 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), insert the 500 mL adapter rings, and place all of the bottles to be filled into the rack.

Figure 1 The HarvestLine System



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 at 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:

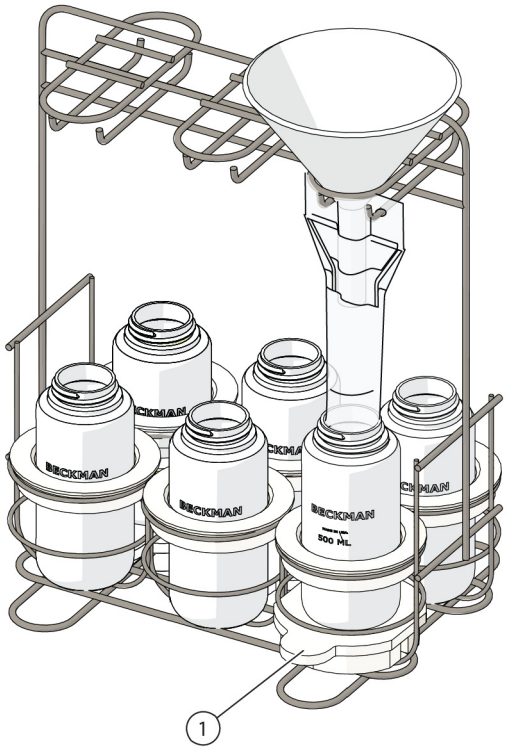
a. Place the funnel on the rack and insert the stem of the funnel into the liner.

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.

7 Lift the bottle to insert the Base Spacer (C23360) into the base of the rack. Set the bottle on the spacer (Figure 3).

Figure 3 Base Spacer added



1. Base Spacer

8 Lift and tamp the bottle on the spacer to cause the liner to expand into the bottle. Set the bottle on the spacer and continue adding sample until it reaches the blue fill line.

NOTE Tamping the bottle allows maximum sample volume to be added into liner.

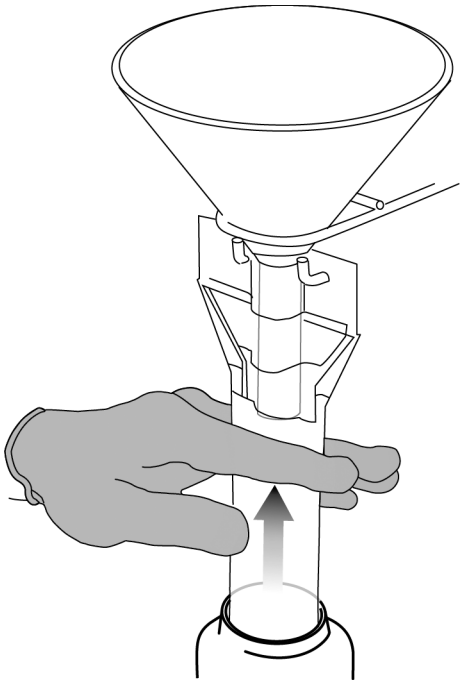
⚠ WARNING

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.

9 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 (Figure 4)

Figure 4 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.

10 Tamp the bottle on a solid surface.

11 Check the weight of each load (bottle containing the filled liner) prior to centrifugation, to ensure that all loads for a run are balanced to within the allowable limit of the rotor.

NOTE Repeat steps 6 through 10 to balance the loads.

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

13 Place a cap/closure on the bottle and hand-tighten it.

14 Place the bottles into the rotor per the rotor and centrifuge instructions.

15 After centrifugation, unscrew the cap/closure.

Unfold the liner neck up and 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.

16 With the liner in the bottle, pour off the supernatant, holding the liner with one hand.

⚠ 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.

17 Seal the liner after the supernatant has been poured off, using a heat sealer with adjustable settings to prevent cutting through the liner. This allows 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, cut the liner just above the pellet area and extract the solid pellet 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

- Dispose of the liners after a single use. Attempting to use them for multiple runs may result in leakage.
- Clean the rack and funnel 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, 500 mL adapter, base spacer, 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

Instructions For Using the GH-3.8 Swinging Bucket Rotor in Beckman Coulter Allegra 6 Series, Spinchron Series, and GP Series Centrifuges (GS6-TB-003)

SX4750 Swinging-Bucket Rotor For Use in the Beckman Coulter Allegra X-12 Series, Allegra X-14 Series, and Allegra X-15R Series Centrifuges (GX-TB-003)

SX4750A Swinging-Bucket Rotor For Use in the Beckman Coulter Allegra X-12 Series, Allegra X-14 Series, and Allegra X-15R Centrifuges (GX-TB-004)

JS-4.750 Swinging-Bucket Rotor For Use in the Beckman Coulter Avanti J-15 Series Centrifuges (B80289)

Available in electronic pdf or CD-ROM by request.

Additional References

- Chemical Resistances for Beckman Coulter Centrifugation Products (IN-175)*

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

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