Actero™ Listeria Enrichment Media*
Product Information

INTENDED USE:

*Actero™ Listeria Enrichment Media ("Actero™ Listeria") is a selective medium specifically optimized for a 18-30 hours single-step recovery and enrichment of Listeria spp, from food and environmental samples.

PRINCIPLE OF OPERATION:

*Actero™ Listeria combines nutritional components with additional ingredients that are necessary to selectively improve the recovery and growth of Listeria. The selective agents present in the *Actero™ Listeria have been optimized to efficiently target competing normal bacterial flora without affecting the growth of Listeria spp.

CONTENTS:

*Actero™ Listeria Enrichment Media EZ-Media Dry Bag – two port 5 L (Cat# FCM-259) and 20 L (Cat# FCM-257) contains sufficient quantity of dehydrated powder to prepare 5 or 20 L of *Actero™ Listeria Enrichment Media.

ADDITIONAL MATERIALS REQUIRED:

All Samples
1. Distilled/deionized water.
2. Sterile Stomacher® bags, or equivalent, with and without filter.
3. Stomacher® or equivalent.
4. Calibrated 10 μL plastic inoculating loops.
5. Rapid™ L-mono agar plates (RLM).
6. Horse blood overlay agar (HL).
7. Modified Oxford agar plates (MOX).
8. Incubator: at 29 ± 0.5°C, 32 ± 0.5°C and 35 ± 2°C.
9. Regular laboratory equipment is also required.

Environmental Samples
1. Non-bactericidal sterile cellulose sampling sponges (8×4×0.3 cm) pre-moistened with neutralizing Dey-Engley buffer (D/E) (FoodChek Cat # FCLS-005).

PROCEDURE FOR EZ-MEDIA DRY BAG:

Materials not provided: The required ancillary tubing and connectors can be purchased separately.

Instructions: Observe aseptic techniques from media preparation through to dispensing. Remove the Actero™ EZ-Media Dry Bag from its packaging, unfold and lay it flat on the bench with tubing and caps facing up. There are two tubes on the Actero™ EZ-Media Dry Bag with red caps. The “in” port does not have a connector and the “out” port has a male connector to ensure sterility while the media is being prepared and later dispensed.

Aseptically remove the sterile filter from its separate bag. The filter has 2 male ends and there is an arrow on the filter to indicate the “in” and “out”. Connect the “in” end of the filter nozzle to the pump or dilutor tubing (used for adding the deionized water to the Actero™ EZ-Media Dry Bag).

Next, remove the sterile cap from the “in” tube (without connector) attached to the Actero™ EZ-Media Dry Bag and connect it to the other end of the filter nozzle to permit the flow of deionized water into your tubing. Loosen the vent valve on the filter and slowly begin to fill the filter capsule with the deionized water so that the liquid reaches the level of the vent. As soon as all excess air escapes the capsule and the deionized water reaches the level of the vent, tighten the vent value to close it. Then, gradually increase the flow rate or pressure of the pump or dilutor to the desired value (maximum flow rate: 350mL/min/0.1bar; maximum operating pressure: 4.1 bar).

Turn off your pump or dilutor when the corresponding volume of water (5L or 20L) has been added to the Actero™ EZ-Media Dry Bag. Remove the Actero™ EZ-Media Dry Bag tube from the filter nozzle and replace the cap on the tube end. Gently massage the Actero™ EZ-Media Dry Bag until the media is completely dissolved. The prepared media in the Actero™ EZ-Media Dry Bag can be stored up to 7 days at room temperature on the bench.

The filter can be used to rehydrate several bags, if necessary, within a short amount of time as long as the manipulation is done aseptically. Otherwise, disconnect the filter from the pump or dilutor tubing and allocate the filter for autoclaving (see autoclave instructions below).

When ready to use the prepared media, remove the cap from the “out” tube (with connector) on the Actero™ EZ-Media Dry Bag, aseptically connect it to your dispensing pump and dispense the appropriate volume into your sample bags.

* Autoclaving the filter: After the filter’s first series of use from its original sterile packaging, it must be autoclaved after every series of aseptic use to a maximum of five times before appropriate disposal. Rinse the filter capsule with deionized or sterile water and autoclave at 121°C for 30 minutes.

QUALITY CONTROL SPECIFICATIONS
1. The powder is homogeneous, free flowing, and beige.
2. Visually, the prepared medium is light to medium amber and with none to slight precipitate.

* All mentions of Actero™ Listeria Enrichment Media or Actero™ Listeria refer to the patented Actero™ Elite product for the detection of Listeria spp.
Sample Preparation

1. Use a non-bactericidal sterile cellulose sampling sponge (8x4x0.3 cm) that has been pre-moistened with D/E buffer.
2. Swab the surface to be tested with one side of the swab(s) in a horizontal direction (approximately 10 cm), and with the other side in a vertical direction (approximately 10 cm) back and forth (one stroke back and one stroke forward) to swab the entire area of 100 cm².
3. Place each surface sampled sponge in a sterile sample bag, and keep at 4 ± 2°C until it is ready for testing. Analyze sample units as soon as possible after their reception in the laboratory.
4. When ready to test, pre-warm the prepared Actero™ Listeria Enrichment Media at 29, 32 or 35°C depending on the detection method to be used.
5. Add 90 mL of the pre-warmed Actero™ Listeria Enrichment Media to each sponge sample in its sample bag.

Analysis of Enriched Samples

- By DuPont™ BAX® System Real-Time PCR Assays for Genus Listeria and L. monocytogenes
- By Actero™ Listeria Culture Method
- By FoodChek™ Listeria spp. Assay
- By Actero™ Listeria Culture Method

6. Homogenize the sample for 30 seconds in a Stomacher® 400 circulator or equivalent. Hand mixing is an acceptable alternative for stomaching. To hand mix, massage each sponge that is in the sealed bag for approximately one minute.

Summary of Enrichment and Analysis of Samples Using Actero™ Listeria Enrichment Media

<table>
<thead>
<tr>
<th>Sample Type</th>
<th>Sample Preparation</th>
<th>Analysis of Enriched Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Sample</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Food Contact Surface | 1. Swab a 100 cm² surface with a sponge (pre-moistened with D/E buffer) and keep it in a sterile bag at 4°C until tested. 2. Homogenize sponge with 90 mL pre-warmed (29°C or 32°C) Actero™ Listeria Enrichment Media. 3. Incubate at 29 ± 0.5°C for 24 h or at 32 ± 0.5°C for 28 h. | ✓ By FoodChek™ Listeria spp. Assay  
✓ By Actero™ Listeria Culture Method |
| Stainless steel   | 1. Swab a 100 cm² surface with a sponge (pre-moistened with D/E buffer) and keep it in a sterile bag at 4°C until tested. 2. Homogenize sponge with 90 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. 3. Incubate at 35 ± 2°C for 20-24 h. | ✓ By DuPont™ BAX® System Real-Time PCR Assays for Genus Listeria and L. monocytogenes  
✓ By Actero™ Listeria Culture Method |
| Plastic           |                                                                                     |                                                                                             |
### Non Food Contact Surface

<table>
<thead>
<tr>
<th>Surface Type</th>
<th>Preparation</th>
<th>Analysis of Enriched Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubber</td>
<td>Homogenize sponge with 90 mL pre-warmed (32°C) Actero™ Listeria Enrichment Media. Incubate at 32 ± 0.5°C for 28 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Sealed concrete</td>
<td>Homogenize sponge with 90 mL pre-warmed (32°C) Actero™ Listeria Enrichment Media. Incubate at 32 ± 0.5°C for 28 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Ceramic</td>
<td>Homogenize sponge with 90 mL pre-warmed (32°C) Actero™ Listeria Enrichment Media. Incubate at 32 ± 0.5°C for 28 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
</tbody>
</table>

### Food Sample

<table>
<thead>
<tr>
<th>Sample Type</th>
<th>Preparation</th>
<th>Analysis of Enriched Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid whole eggs</td>
<td>Homogenize (30 s) 25 g sample with 150 mL pre-warmed (32°C) Actero™ Listeria Enrichment Media. Incubate at 32 ± 0.5°C for 28 h.</td>
<td>By FoodChek™ Listeria spp. Assay By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Cold smoked salmon</td>
<td>Homogenize (30 s) 25 g sample with 150 mL pre-warmed (29°C) Actero™ Listeria Enrichment Media. Incubate at 29 ± 0.5°C for 28 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Frozen cooked shrimp</td>
<td>Homogenize (30 s) 25 g sample with 150 mL pre-warmed (32°C) Actero™ Listeria Enrichment Media. Incubate at 32 ± 0.5°C for 28 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Raw frozen salmon</td>
<td>Homogenize (30 s) 25 g sample with 100 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. Incubate at 35 ± 2°C for 22-24 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Soft fresh cheese (Ricotta)</td>
<td>Homogenize (30 s) 25 g sample with 150 mL pre-warmed (32°C) Actero™ Listeria Enrichment Media. Incubate at 32 ± 0.5°C for 28 h.</td>
<td>By FoodChek™ Listeria spp. Assay By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Mexican-style cheese</td>
<td>Homogenize (30 s) 25 g sample with 150 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. Incubate at 35 ± 2°C for 22-24 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Ice cream</td>
<td>Homogenize (30 s) 25 g sample with 150 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. Incubate at 35 ± 2°C for 18-22 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
</tbody>
</table>

### Sample Type

<table>
<thead>
<tr>
<th>Sample Type</th>
<th>Preparation</th>
<th>Analysis of Enriched Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pasteurized milk</td>
<td>Homogenize (30 sec) 25 g sample with 100 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. Incubate at 35 ± 0.5°C for 22-24 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Bagged fresh spinach</td>
<td>Homogenize (30 s) 25 g sample with 150 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. Incubate at 35 ± 2°C for 22-24 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Hot dog sausage</td>
<td>Homogenize (30 s) 125 g sample with 750 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. Incubate at 35 ± 2°C for 26-28 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Smoked turkey breast</td>
<td>Homogenize (30 s) 125 g sample with 500 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. Incubate at 35 ± 2°C for 24-28 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
<tr>
<td>Cured ham</td>
<td>Homogenize (30 s) 125 g sample with 500 mL pre-warmed (35°C) Actero™ Listeria Enrichment Media. Incubate at 35 ± 2°C for 26-28 h.</td>
<td>By DuPont™ BAX® System Real-Time PCR Assays for genus <em>Listeria</em> and <em>L. monocytogenes</em> By Actero™ Listeria Culture Method</td>
</tr>
</tbody>
</table>
Food Sample Preparation

**Liquid Whole Eggs (25 g)**

Actero™ Listeria Culture Method or FoodChek™ Listeria spp. assay

1. Add 150 mL of the pre-warmed (32°C) Actero™ Listeria Enrichment Media to each 25 g sample in a non-filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds at 90 rpm in a Stomacher® 400 circulator or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 28 h at 32 ± 0.5°C. Adherence to temperature is important for accurate results.

**Cold Smoked Salmon (25 g)**

Actero™ Listeria Culture Method or FoodChek™ Listeria spp. assay

1. Add 150 mL of the pre-warmed (29°C) Actero™ Listeria Enrichment Media to each 25 g sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 400 circulator or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 28 h at 29 ± 0.5°C. Adherence to temperature is important for accurate results.

**Frozen Cooked Shrimps (25 g)**

Actero™ Listeria Culture Method or FoodChek™ Listeria spp. assay

1. Add 150 mL of the pre-warmed (32°C) Actero™ Listeria Enrichment Media to each 25 g sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 400 circulator or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 28 h at 32 ± 0.5°C. Adherence to temperature is important for accurate results.

**Raw Frozen Salmon (25 g)**

DuPont™ BAX® System Real-Time PCR Assays for Genus Listeria and for Listeria monocytogenes or Actero™ Listeria Culture Method

1. Add 100 mL of the pre-warmed (35°C) Actero™ Listeria Enrichment Media to each 25 g raw frozen salmon sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 400 circulator or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 18-22 h at 35 ± 2°C.

**Soft Fresh Cheese Ricotta (25 g)**

Actero™ Listeria Culture Method or FoodChek™ Listeria spp. assay

1. Add 150 mL of the pre-warmed (32°C) Actero™ Listeria Enrichment Media to each 25 g sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 400 circulator or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 28 h at 32 ± 0.5°C. Adherence to temperature is important for accurate results.

**Mexican-style cheese (25 g), Bagged Fresh Spinach (25 g)**

DuPont™ BAX® System Real-Time PCR Assays for Genus Listeria and for Listeria monocytogenes or Actero™ Listeria Culture Method

1. Add 150 mL of the pre-warmed (35°C) Actero™ Listeria Enrichment Media to each 25 g sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 400 circulator or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 22-24 h at 35 ± 2°C.

**Ice Cream (25 g)**

DuPont™ BAX® System Real-Time PCR Assays for Genus Listeria and for Listeria monocytogenes or Actero™ Listeria Culture Method

1. Add 150 mL of the pre-warmed (35°C) Actero™ Listeria Enrichment Media to each 25 g sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 400 circulator or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 18-22 h at 35 ± 2°C.

**Pasteurized Milk (25 g)**

Actero™ Listeria Culture Method

1. Add 150 mL of the pre-warmed (32°C) Actero™ Listeria Enrichment Media to each 25 g sample in a non-filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 400 circulator or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 28 h at 32 ± 0.5°C. Adherence to temperature is important for accurate results.

**For the enrichment phase,** close the bags and incubate the samples in an incubator for 22-24 h at 35 ± 2°C.
Hot Dog Sausage (125 g)

DuPont™ BAX® System Real-Time PCR Assays for Genus Listeria and for *Listeria monocytogenes* or Actero™ Listeria Culture Method

1. Add 750 mL of the pre-warmed (35°C) *Actero™ Listeria Enrichment Media* to each 125 g sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 3500 or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 26-28 h at 35 ± 2°C. Adherence to temperature is important for accurate results.

Smoked Turkey Breast (125 g)

DuPont™ BAX® System Real-Time PCR Assays for Genus Listeria and for *Listeria monocytogenes* or Actero™ Listeria Culture Method

1. Add 500 mL of the pre-warmed (35°C) *Actero™ Listeria Enrichment Media* to each 125 g sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 3500 or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 24-28 h at 35 ± 2°C. Adherence to temperature is important for accurate results.

Cured Ham (125 g)

DuPont™ BAX® System Real-Time PCR Assays for Genus Listeria and for *Listeria monocytogenes* or Actero™ Listeria Culture Method

1. Add 500 mL of the pre-warmed (35°C) *Actero™ Listeria Enrichment Media* to each 125 g sample in a filtered Stomacher® sample bag or equivalent.
2. Homogenize the sample for 30 seconds in a Stomacher® 3500 or equivalent.
3. For the enrichment phase, close the bags and incubate the samples in an incubator for 26-28 h at 35 ± 2°C. Adherence to temperature is important for accurate results.

Analysis of Enriched Samples

*Actero™ Listeria Culture Method — All samples*

1. At the end of the enrichment phase, streak a loopful of an enriched sample over the surface of one MOX and one RLM agar plates. Incubate the streaked plates for 24-48 h at 35 ± 2°C in an incubator.
2. After the 24 h incubation, examine both the MOX and RLM agar plates for colonies with morphology typical for *Listeria* spp. with following re-examination after 48 h of total incubation.
3. Use a loop to contact a minimum of 20 (if available) suspect colonies presented in MOX agar plate and collectively streak for isolation on one or more HL agar plates. Incubate the streaked HL plates at 35 ± 2°C for 22 ± 4 h.

**Interpretation and Test Result Report**

1. If no suspect colonies with morphology typical of *Listeria* spp. have been found on MOX (*Listeria* spp. are small (≥1 mm), black, round in shape and are surrounded by a darker zone) and/or RLM agar plates (*L. monocytogenes* colonies will appear blue (pale blue, grey-blue to dark blue) without a yellow halo, *L. ivanovii* colonies will appear blue-green with a yellow halo and other *Listeria* strains will be white, with or without a yellow halo) following a 48 ± 2 h of total incubation, the sample is considered as being negative for the presence of *Listeria* spp.

2. If the suspect colonies with morphology typical for *Listeria* spp. (see above) have been found on MOX and/or RLM agar plates after 48 h of total incubation, the sample should be considered as potentially positive for *Listeria* spp. The suspect colonies must be confirmed according to the U.S. Food and Drug Administration *Bacteriological Analytical Manual*, Chapter 10, Detection and Enumeration of *Listeria monocytogenes* (2011) or in the FSIS Microbiology Laboratory Guidebook Chapter 8.09 (2013).

**FoodChek™ Listeria spp. Assay — All samples**

Refer to the Analysis section of the package insert for the FoodChek™ Listeria spp. assay.

DuPont™ BAX® System Real-Time PCR Assays for Genus *Listeria* and for *Listeria monocytogenes* — Environmental surface samples

Refer to the Test Protocol section of the package insert for each respective assay.

**PRODUCT STORAGE AND SHELF LIFE:**

On receipt, store the EZ-Media Dry Bag at room-temperature 15-25°C. The expiry date is indicated on the package.

**DISPOSAL:**

Dispose all materials used and the enrichment medium by autoclaving or according to approved practices. Ensure that all biohazard waste is disposed of according to local, municipal, provincial, state and/or federal regulations.

**PRECAUTIONS:**

Biosafety level 2 procedures should be exercised. (BMBL, http://www.cdc.gov/biosafety/publications/bmbl5/bmbl.pdf). Extreme care should be taken in handling test samples and enrichment broths. All enrichment broth may contain various pathogens whether they contain *Listeria* spp. or not. Moreover, those who are at the highest risk of serious illness like pregnant women, and potentially immunocompromised individuals should have limited access to laboratory rooms or areas where *L. monocytogenes* isolation or identification procedures are in progress.

**TERMS AND CONDITIONS:**

FoodChek Systems Inc. makes no representations and warranties concerning its products other than those stated herein. All Product(s) delivered hereunder by FoodChek Systems Inc., its affiliates or any other person on its behalf shall, at the time of delivery, be manufactured to meet FoodCheks Systems Inc.’s specifications and all applicable laws. All other terms, conditions and warranties, including any warranty of merchantability, quality, fitness or suitability for a particular or intended purpose, implied by common law or statute, (implied warranties) are expressly excluded.
CATALOGUE NUMBERS:
FCM-259: Actero™ Listeria Enrichment EZ-Media Dry Bag, 15 x 5 L.
FCM-257: Actero™ Listeria Enrichment EZ-Media Dry Bag, 12 x 20 L.

FOR FURTHER INFORMATION, PLEASE CONTACT:
FoodChek Systems Inc.
Suite 450, 1414 – 8 St. S.W.
Calgary, Alberta, Canada
T2R 1J6
Tel: 1-877-298-0208
Bacteria enrichment is a critical process. Actero™ has developed a system that makes media preparation simple, safe and efficient.

Have confidence in every test, every time with Actero™.

For more information visit actero.ca
Filter Instructions:
Filter must be Autoclaved after each use at 121°C for 30 minutes.
Filter can be used up to five times.

Instructions pour le filtre:
Après chaque utilisation, le filtre doit être stérilisé à l’autoclave à 121°C pendant 30 minutes.
Le filtre ne peut pas être utilisé plus de cinq fois.

Instrucciones para el filtro:
El filtro se debe esterilizar en autoclave después de cada uso a 121°C durante 30 minutos.
El filtro se puede utilizar hasta cinco veces.

Filteranweisungen:
Der Filter muss nach jeder Verwendung autoklaviert werden 121°C für 30 Minuten.
Der Filter kann bis zu fünf Mal verwendet werden.

For more information visit actera.ca
Pour des informations complémentaires, rendez-vous sur notre site actera.ca
Para saber más, visite actera.ca.
Weitere Informationen finden Sie auf actera.ca.