



Actero™ E. coli Enrichment Media

Product Information

Intended Use:

Actero™ E. coli is a media, specifically designed for the selective enrichment of *Escherichia coli* O157 from food.

Contents:

Dehydrated Actero™ E. coli Enrichment Media is provided in **500 g Bottle** (Cat# FCM-008). Each bottle contains the correct amount of media powder to sufficiently prepare 15 L of liquid media.

The media supplement (2 VCC supplement vials) provides additional selectivity to the enrichment broth to ensure growth of the target to the detection threshold. The media supplement is a lyophilized powder in a septum vial. The user hydrates the supplement with 20 mL of sterile distilled water before addition to the enrichment broth. If additional media supplement is required, it is available from FoodChek Systems Inc. catalogue number FCM-002.

Procedure:

General Preparation

Instruction to prepare 1 L of Actero™ E. coli Enrichment Media (Cat. # FCM-008)

Non- Autoclave Method

1. Prepare a sterile and clean 1L bottle for each liter of media preparation.
2. Shake container of dry enrichment media before each use.
3. Measure 33 g of powder into the bottle and add to 1 L of **sterile** pre-warmed distilled water.
4. Constantly stir until powder dissolved (approximately 15 min).
5. Reconstitute a vial of lyophilized media supplement by adding 20mL of sterile water and mix. Store unused liquid portions refrigerated for up to 10 days.
6. Add 2.2 mL of rehydrated VCC supplement to 1 L of the media.
7. This preparation method is for **immediate use** of the media.

Autoclave Method

1. Prepare a clean 1 L bottle for each liter of media preparation.



2. Shake container of dry enrichment media before each use.
3. Measure 33 g of powder into the bottle and add to 1 L of distilled water.
4. Constantly stir until powder dissolved (approximately 15 min).
5. Sterilize the bottle of prepared media by autoclaving at 121°C for 15 min.
6. Cool bottle to room temperature and store at 2–8°C for up to 45 days.
8. When ready to use, bring the bottle of prepared media to the appropriate temperature by incubating in a water bath or incubator.
9. Reconstitute a vial of lyophilized media supplement by adding 20mL of sterile water and mix. Store unused liquid portions refrigerated for up to 10 days.
7. Add 2.2 mL of rehydrated VCC supplement.

Product Storage and Shelf Life:

The dehydrated media should be kept at 10–30°C, in tightly closed bottle in a dry well ventilated place and used before the expiry date indicated on the bottle.

The dehydrated VCC supplement should be stored at 2-8°C and used before the expiry date indicated on the bottle.

If the media has been autoclaved it can be stored at 2–8°C for up to 45 days, in a tightly closed bottle.

Quality control:

<u>Test</u>	<u>Expected results</u>
Appearance (dehydrated medium)	Fine, light beige, homogeneous powder
Appearance (solution)	Clear, Light to Medium amber
pH	7.2 ±0.1
Growth assays	
<i>Escherichia coli</i> ATCC 43895	Growth
<i>Salmonella</i> Typhimurium ATCC 14028	Partial inhibition
<i>Staphylococcus aureus</i> ATCC 25923	Partial to Complete Inhibition

Precautions:

The use of microbiological media such as the Actero™ E. coli Enrichment Media requires trained laboratory personnel familiar with good microbiological laboratory practices.



Wearing a laboratory coat, disposable gloves, and eye protection while handling specimens is strongly recommended.

Extreme care should be taken in handling test samples and enrichment broths. All enrichment broths may contain various pathogens whether they contain *Escherichia coli* O157 or not.

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 FoodChek 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 Number:

FCM-008: ActeroTM E. coli Enrichment Media (500 g)

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

ActeroTM

FoodChekTM

Food safety, **simplified**.