

DuPont Qualicon BAX[®] System

ENRICHMENT MEDIA for *E. coli* O157:H7 MP

PRODUCT DESCRIPTION

BAX[®] system media for *E. coli* O157:H7 MP is a selective enrichment broth for use with either the standard or multiplex (MP) BAX[®] system PCR assays for detecting *E. coli* O157:H7. This media can also be used to enrich beef, trim and produce samples for *Salmonella* testing, allowing you to screen samples for both organisms from a single enrichment.

This proprietary medium provides nutrients and stable pH conditions to improve the recovery of *E. coli* O157:H7 and *Salmonella* cells from raw ground beef, beef trim, spinach and lettuce.



E. coli O157:H7 Enrichment Media

Bulk powder

Part #D12404925 - 2.5 kg makes 111 L

Part #D12404910 - 10 kg makes 444 L

DuPont[™] StatMedia[™] soluble packets

Part #D12614061 - 30 x 75.9 g packets make 101.25 L

Part #D12745725 - 100 x 33.75 g packets make 150 L

Appearance

Bulk media

Dehydrated: Light-colored, free-flowing powder

Rehydrated: Caramel-colored solution

DuPont[™] StatMedia[™] soluble packets

Dehydrated: Light colored powder in clear film

Rehydrated: Caramel-colored solution, slightly cloudy

Storage and Stability

Bulk media

Store dehydrated in original container, with the lid tightly closed and away from bright light, below 25°C. When stored as directed, bulk media will remain stable until the expiration date stamped on the label of the container.

DuPont[™] StatMedia[™] soluble packets

Store soluble packets in tightly resealed pouches away from moisture at 10-25°C. Use within one year of the manufacturing date stamped on the pouch label.

Preparation

Bulk media

Dissolve 22.5 grams of media in 1 liter of distilled water. Final pH 7.2±0.2 at 25°C. Autoclave at 121°C for 15 minutes. Do not boil. Broth can be stored for up to 2 weeks at 2-8°C.

DuPont[™] StatMedia[™] soluble packets

Determine the appropriate volume of distilled or deionized water, and sterilize either by autoclaving or filtering (pore size 0.2 µm) into a sterile container. Warm water to 42°C, then aseptically remove packet from pouch and add to the sterilized water. Mix gently until dissolved. Final pH 7.2 ±0.2 at 25°C.

No need to autoclave if used within 4 hours. Beyond 4 hours, broth should be autoclaved at 121°C for 15 minutes before use. Do not boil. Autoclaved broth can be stored for up to 2 weeks at 2-8°C.



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Enrichment Procedure

Prepare samples.

For ground beef and beef trim:AOAC-RI validated for 25g samples:

Validated for *E. coli* O157:H7 testing with ground beef and beef trim and for *Salmonella* testing with ground beef

Add 25 g chilled (4-10°C) sample to 225 mL pre-warmed (42°C) broth. Incubate promptly at 42±1°C for 8-24 hours.

AOAC-RI validated for 65g samples:

Validated for *E. coli* O157:H7 testing with ground beef and beef trim and for *Salmonella* testing with beef trim

Add 65 g chilled (4-10°C) sample to 585 mL pre-warmed (42°C) broth. Incubate promptly at 42±1°C for 8-24 hours.

Internally validated for 375g samples:

Validated for *E. coli* O157:H7 testing

Add chilled (4-10°C) samples to pre-warmed (42°C) broth:

- 375 g sample in 1500 mL broth (1:5)
- 375 g sample in 3375 mL broth (1:10)

Incubate promptly at 42±1°C for 10-24 hours.

For spinach and lettuce:AOAC-RI validated for 25g samples:

Validated for *E. coli* O157:H7 and *Salmonella* testing

Add 25 g sample to 225 mL pre-warmed (42°C) broth. Incubate promptly at 42±1°C for 8-24 hours.

Note: You do not have to wait the full 24 hours, but can begin processing samples with the BAX® System after 8 or 10 hours enrichment in this broth.

Note: Do not use frozen samples.

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