

DriFilter™ Membrane



DriFilter™ Membrane Nutrient Pad Media

**For Water, Brewery, Dairy, Food,
Pharmaceuticals & Cosmetic product testing**

- Sterile ready prepared medium absorbed and dried on 50 mm filter pads.
- Reduces time and labour of media preparation.
- Wide range of media nutrient pads to cover water and fluids testing.
- Easy to handle and use.
- Rehydrate with 2-2.5ml sterile distilled or purified water.
- Place membrane filter used for filtration of sample on nutrient pad.
- Incubate for 24-48 hours.
- Read results, as growth on surface of membrane filter.



Quick - Easy & Reliable

HIMEDIA®
For life is precious

DriFilter™ Membrane Nutrient Pad Media

HiMedia's DriFilter membrane nutrient pads are ready to use sterile culture media in the form of a 50 mm biological inert absorbent pads impregnated with standard culture medium, then dried and sterilized in 55 mm petri plate. They eliminate the need of laborious media preparation and autoclaving procedures. Just rewet the nutrient pads with sterile distilled water and they are ready to use.

HiMedia's attempt to cover a wide range of nutrient pad set has made water and fluids testing easy and minimized a series of steps involved.

Method of CFU determination

How to use?

- Step 1 :** The test sample should be filtered through a sterile membrane filter having pore size of 0.22μ / 0.45μ .
- Step 2 :** Rehydrate the nutrient pad with 2.0 - 2.5 ml sterile distilled / purified water.
- Step 3 :** After filtration, remove the membrane filter aseptically using sterile forceps.
- Step 4 :** Place the membrane filter on the rehydrated nutrient pad.
- Step 5 :** Incubate the inoculated nutrient pads as per the specified directions in the adjacent table.
- Step 6 :** Interpret the results qualitatively by observing the presence or absence of growth and quantitatively by counting the number of colonies on the surface of the membrane filter and calculating CFU/ml.

Fields of application

Water testing

Brewery

Food

Dairy

Pharmaceuticals & Cosmetic industry

Soft drinks

MF010 M-Endo Medium

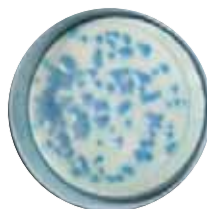


E. coli - pink with metallic sheen

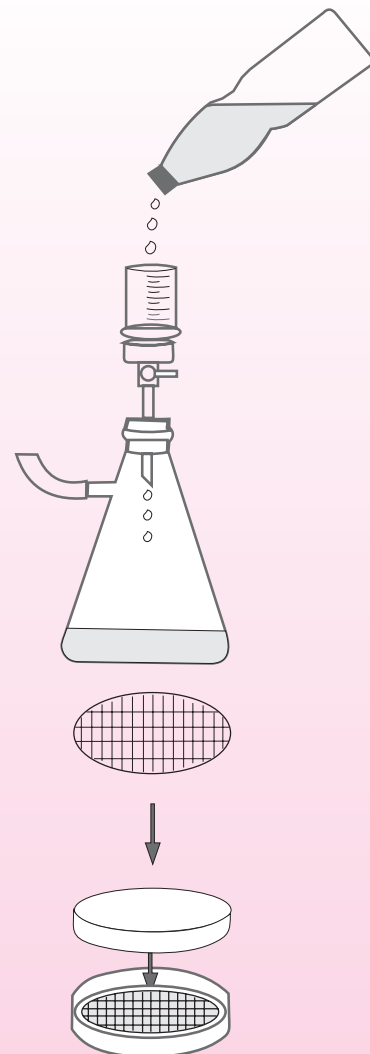
MF018 Universal filter membrane medium



E. coli - purple, smooth colonies



Klebsiella pneumoniae - blue, mucoid colonies



Advantages

- The ease of usage and time conservation allows for larger sample volumes to be tested at a time.
- Interpretation of results directly by counting the CFUs also quantitates the microbial load present.
- The membranes can be stored at room temperature and have a shelf life of 15 months.

| Code | Description | Purpose | Field of application | Temp. & Time of incubation |
|-------|---|--|---|--|
| MF001 | Standard Plate Count Medium | For bacterial detection & enumeration. | Water, milk, food and other samples, waste water, beverages. | 35°C - 37°C for 18 - 48 hours |
| MF002 | Standard Plate Count Medium with TTC | For bacterial detection & enumeration, easy detection due to colour indicator - pink colonies develop. | Water, milk, food and other samples, waste water, beverages. | 35°C - 37°C for 18 - 48 hours |
| MF003 | Sabouraud Dextrose Medium | For detection of fungi viz. yeasts & moulds. | Waste water, pharmaceutical cosmetics, packing material. | 25°C - 30°C for 2 - 5 days |
| MF004 | Bile Esculin Azide Medium | For detection & enumeration of <i>Enterococci</i> . | Water*, food and other samples. (* ISO 7899-2, 1984) | 35°C - 37°C for 18 - 48 hours |
| MF005 | Bismuth Sulphite Medium | For detection & enumeration of <i>Salmonella</i> . | Water, food and other clinical samples. | 35°C - 37°C for 24 - 48 hours |
| MF006 | Soyabean Casein Digest Medium | For total bacterial detection & enumeration. | Water, waste water, milk and food. | 35°C - 37°C for 18 - 48 hours |
| MF007 | Cetrimide Medium | For detection & enumeration of <i>Pseudomonas</i> . | Water, pharmaceuticals, cosmetics and other samples. | 35°C - 37°C for 24 - 48 hours |
| MF008 | Chapman Stone Medium | For detection & enumeration of <i>Staphylococci</i> . | Food, pharmaceuticals, cosmetics and clinical samples. | 35°C - 37°C for 24 - 48 hours |
| MF009 | ECD Medium | For detection & enumeration of <i>E. coli</i> & coliforms. | Water, food, waste water, etc. | 35°C - 37°C for 18 - 48 hours |
| MF010 | M-Endo Medium | For detection & enumeration of <i>E. coli</i> & coliform bacteria. | Water*, food and other samples. (* Standard TNV 75, 7837,2002) | 35°C - 37°C for 18 - 48 hours |
| MF011 | Dextrose Tryptone Medium | For detection & enumeration of thermophilic & mesophilic bacteria. | Water, food, milk, sugars. | 55°C for 48 - 72 hours |
| MF012 | MacConkey Medium | For detection & enumeration of coliforms. | Water, waste water, milk and food. | 35°C - 37°C for 18 - 48 hours |
| MF013 | M-FC Medium | For detection and enumeration fecal coliforms of higher temperature. | Water*, food. (* Standard TNV 75, 7835,1999) | 35°C - 37°C for 18 - 48 hours |
| MF014 | Orange Serum Medium | For detection and enumeration of acid tolerant microorganisms. | Beverages and food. | 35°C - 37°C for 48 - 72 hours (aerobic & anaerobic atmosphere) |
| MF015 | Teepol Medium | For detection and enumeration of enteric, lactose fermenting bacteria. | Water, food, waste water. | 44°C for 18 - 48 hours |
| MF016 | Tergitol-7 TTC Medium | For detection and enumeration of <i>E. coli</i> and coliforms. | Water*, food. (* ISO 9308-1, 2001) | 35°C - 37°C for 18 - 48 hours |
| MF017 | Wort Medium | For detection and enumeration of yeasts and moulds. | Water, food, beverages, syrups. | 25°C - 30°C for 2 - 5 days |
| MF018 | Universal Filter Membrane Medium (chromogenic) | For total bacterial detection and enumeration based on chromogenic differentiation. | Water, waste water, pharmaceuticals, cosmetics, packing material and other clinical test materials. | 35°C - 37°C for 18 - 48 hours |
| MF019 | EC 0157:H7 Filter Membrane Medium (chromogenic) | For detection and enumeration of EHEC based on chromogenic differentiation. | Water, food. | 35°C - 37°C for 18 - 48 hours |
| MF020 | Salmonella Differential Medium (chromogenic) | For detection and enumeration of <i>Salmonella</i> from other enteric bacteria. | Water, food. | 35°C - 37°C for 18 - 48 hours |
| MF021 | Tomato Juice Medium | For detection and enumeration of <i>Lactobacilli</i> & other aciduric microorganisms. | Beverages. | 35°C - 37°C for 48 - 72 hours |
| MF022 | Slanetz and Bartley Medium | For detection and enumeration of fecal <i>Streptococci</i> . | Water*, food. (* ISO 7899-2, 1984) | 35°C - 37°C for 44 - 48 hours |
| MF023 | Pseudomonas Medium | For detection and enumeration of <i>Pseudomonas</i> species. | Food*. (* EN 12780, 2002) | 35°C - 37°C for 24 - 48 hours |
| MF024 | Malt Extract Medium | For detection and enumeration of yeast and moulds. | Water, Food, Milk and other samples | 25°C - 30°C for 48 - 72 hours |

| Code | Description | Purpose | Field of application | Temp. & Time of incubation |
|-------|------------------------|---|---|----------------------------|
| MF026 | Coliform medium w/ SLS | For detection and enumeration of total coliforms and <i>E.coli</i> based on chromogenic differentiation | Water, food, waste water etc. | 35-37°C for 24-48 hours |
| MF027 | M-E.coli Medium | For bacterial detection and enumeration due to colour indicator-pink colonies develop | Water, milk, food and other samples, waste water, beverages | 35-37°C for 24-48 hours |
| MF028 | ECC Selective Medium | For detection of <i>E.coli</i> and coliforms | Water, food | 35-37°C for 18-24 hours |
| MF029 | M-TEC medium | For thermotolerant <i>E.coli</i> | Water | 44-45°C for 24-48 hours |
| MF030 | R2A Medium | For heterotrophic plate count of treated potable water using longer incubation periods. | Water | 35-37°C for 24-72 hours |

Morphological Colony Characteristics

| Code | Colony Characteristics | Code | Colony Characteristics |
|-------|---|-------|---|
| MF001 | Colourless | MF019 | <i>E. coli</i> 0157:H7 - dark blue to black <i>E. coli</i> - light green <i>Ps. aeruginosa</i> - colourless to light pink <i>Klebsiella pneumoniae</i> - greenish yellow |
| MF002 | Reddish pink | MF020 | <i>E. coli</i> - bluish green smooth colonies <i>S. typhimurium</i> - pink <i>Enterococcus faecalis</i> - colourless <i>Klebsiella pneumoniae</i> - blue, mucoid |
| MF003 | Colourless | MF021 | <i>Lactobacilli</i> - colourless |
| MF004 | Brownish black colonies with esculin hydrolysis | MF022 | <i>Enterococcus faecalis</i> - red or maroon |
| MF005 | Brownish black | MF023 | <i>Pseudomonas aeruginosa</i> - green |
| MF006 | Colourless | MF024 | <i>Candida albicans</i> - colourless <i>S. cerevisiae</i> - colourless |
| MF007 | Colourless (w or w/o pigmentation) | MF026 | <i>E.coli</i> - dark blue-violet <i>Citrobacter freundii</i> salmon to red <i>Kleb. pneumoniae</i> -pink to red <i>Ent. cloacae</i> -salmon to red |
| MF008 | Colourless | MF027 | <i>E.coli</i> -Bluish purple <i>Ent. aerogenes</i> -Light pink |
| MF009 | Colourless | MF028 | <i>E.coli</i> - Blue, <i>Kleb. pneumoniae</i> -pink <i>Ps.aeruginosa</i> - Straw |
| MF010 | <i>E. coli</i> - pink with metallic sheen <i>Klebsiella pneumoniae</i> - pink, mucoid <i>S. typhimurium</i> - colourless | MF029 | <i>E.coli</i> -Blue <i>Kleb. pneumoniae</i> -Purple,mucoid <i>Proteus mirabilis</i> -colourless light brown |
| MF011 | Yellow | MF030 | <i>Candida albicans</i> , <i>Ent. faecalis</i> , <i>E.coli</i> , <i>Sal. Enteritidis</i> , <i>S.Typhi</i> - red to maroon |
| MF012 | <i>E. coli</i> - pink <i>S. choleraesuis</i> - colourless | | |
| MF013 | <i>E. coli</i> - blue <i>S. typhimurium</i> - red | | |
| MF014 | Colourless | | |
| MF015 | Colourless | | |
| MF016 | <i>E. coli</i> - yellow <i>S. typhimurium</i> - red centered colonies | | |
| MF017 | Colourless | | |
| MF018 | <i>E. coli</i> - pinkish purple <i>Klebsiella pneumoniae</i> - blue mucoid <i>Proteus mirabilis</i> - brown <i>Staphylococcus aureus</i> - colourless <i>Enterococcus faecalis</i> - blue, pinpoint | | |

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