



HiCrome™ *Enterococcus faecium* Agar Base

M1580

Intended use

Recommended for the chromogenic identification of *Enterococcus faecium* from faeces, sewage and water supplies.

Composition**

Ingredients	Gms / Litre
Peptone, special	23.000
Corn starch	1.000
Sodium chloride	5.000
Arabinose	10.000
Phenol red	0.100
Chromogenic substrate	0.100
Agar	15.000
Final pH (at 25°C)	7.8±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 27.1 grams in 500 ml purified / distilled water. Heat to boiling to dissolve the medium completely. **DO NOT AUTOCLAVE**. Cool to 45-50°C and aseptically add sterile rehydrated contents of 1 vial of *Enterococcus faecium* Selective Supplement (FD226). Mix well and pour into sterile Petri plates.

Principle And Interpretation

HiCrome™ *Enterococcus faecium* Agar Base is recommended for the chromogenic detection of *Enterococcus faecium* from urine, faeces, soil, food, water, plants and animals. *E.faecium* is commonly found in the gastrointestinal tracts of humans (1). The resistance exhibited by *Enterococcus* species to various antimicrobials has led them to being a major cause of human infections including nosocomial infections (2). *E.faecalis* causes 80-90% of infection while *E.faecium* causes the majority of the remainder (3). The use of selective media for the isolation of Enterococci has been previously reviewed, including those containing chromogenic substrates (4) and media containing cephalexin-aztreonam supplements. *Enterococcus* species possess the enzyme β -glucosidase, which specifically cleaves the chromogenic substrate to produce blue coloured colonies. *E.faecium* ferment arabinose; and cleaves the chromogenic substrate present in the media to produce green coloured colonies along with yellow colouration to the medium. *E.faecalis* does not ferment arabinose and therefore retains the blue colour. Peptone special serves as a source of carbon, nitrogen and essential growth nutrients. Corn starch neutralizes the toxic metabolites while sodium chloride maintains the osmotic equilibrium. Phenol red serves as a pH indicator with arabinose being the fermentable carbohydrate

Type of specimen

Clinical samples : urine, faeces ; Food samples ; Water samples.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (5,6).

For food samples, follow appropriate techniques for sample collection and processing as per guidelines (7).

For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards (8).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precaution



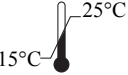



In Vitro diagnostic use. For professional use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard

Reference

6NLQQHU) \$ DQG 4XHVQHO / % (G 6WUHSWRFRFFL \$FDGHPL
 8QLWHG .LQJGRP S
 &KHQRZHWK & 6FKDEHUI ' 7KH (SLGHPLRORJ\ RI (QWHURFRFFL (XU
 0RHOOHULQJ 5 & &OLQ ,QIHFV 'LV
 :LOOLQJHU % DQG 0DQDIL 0 /HWW \$SSO 0LFURELRO
 ,VHQEHUJ + ' &OLQLFDO 0LFURELRORJ\ 3URFHGXUHV +DQGERRN QG (C
 -RUJHQVHQ - + 3IDOOHU 0 \$ &DUUROO . &)XQNH * /DQGU\ 0 /
 0DQXDO RI &OLQLFDO 0LFURELRORJ\ WK (GLWLRQ 9RO
 6DOILQJHU < DQG 7RUWRUHOOR 0 / &RPSHQGLXP RI 0HWKRGV IF
)RRGV WK (G \$PHULFDQ 3XEOLF +HDOWK \$VVRFLDWLRQ :DVKLQJWR

Baird R.B., Eaton A.D., and Rice E.W., (Eds.), 2015, Standard Methods for the Examination of Water and Wastewater, 23rd ed., APHA, Washington, D.C.

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-  In vitro diagnostic medical device
-  CE Marking
-  Storage temperature
15°C - 25°C
-  Do not use if package is damaged
-  HiMedia Laboratories Pvt. Limited,
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