

## CHROMAGAR ECC

### INTENDED USE:

Chromogenic medium for the detection and enumeration of  $\beta$ -glucuronidase positive E.coli and coliforms in food and water samples.

### PRINCIPLE AND INTERPRETATION:

Coliforms, Enterobacteriaceae able to ferment lactose (lactose positive Enterobacteriaceae), are bacteria present in human and warm blooded animals intestinal flora, in the soil and water. Coliforms are proof of organic, environmental or faecal contamination. Faecal contamination, due to coliforms coming from animal waste, consists mainly of Escherichia coli and thermotolerant Klebsiella. Strict regulations exist for E.coli/Coliform presence in water and food samples. This can be explained by the importance of these germs in determining water and food safety.

### COMPOSITION:

Ingredients	Gr/Liter
Peptone and yeast extract	8 gr
NaCl	5 gr
Chromogenic mix	4,8 gr
Agar	15 gr

\*\*\*Formula adjusted, standardized to suit performance parameters

pH: 7,2  $\pm$  0,2

### PRECAUTIONS:

For professional use only. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

### TEST PROCEDURE:

Related samples (e.g. Processed food, raw materials, water, milk & environment) can be processed by direct streaking on the plate, as well as prior appropriate enrichment step.

### QUALITY CONTROL:

#### 1.Sterility Control:

Incubation 48 hours at 30-35°C and 72 hours at 20-25°C: NO GROWTH

#### 2.Phsical/Chemical Control

pH: 7,2  $\pm$  0,2

Apperance: Light amber

#### 3.Microbiological Control: Incubation at 37 °C during 24-48 h.

Microorganism	Inoculum (CFU)	Results	
		Growth	Reaction
E.coli ATCC 25922	10-100	Growth	Blue
Citrobacter freundii ATCC 8090	10-100	Growth	Mauve
E.cloacae ATCC 43560	10-100	Growth	Mauve
E.aerogenes ATCC 13048	10-100	Growth	Mauve
K.pneumoniae ATCC 4352	10-100	Growth	Mauve
Staphylococcus aureus ATCC 25923	100-1000	Inhibition	-
Enterococcus faecalis ATCC 25122	100-1000	Inhibition	-

### STORAGE CONDITIONS AND SHELF LIFE:

Store the prepared medium at 2 - 12°C. Use before expiry date on the label. Do not use beyond stated expiry date.

### DISPOSAL:

Incubated prepared medium may contain active bacteria and micro-organisms. Do not open infected medium. Infected plate should be autoclaved, incinerated or opened and soaked in a chlorine-based disinfectant (liquid bleach) for 20 minutes prior to disposal.

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### PACKAGING:

**Katalog Number:** 02013

**Packaging:** Single wrap

**Content:** 10 plates/each package

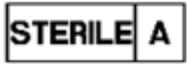
### REFERENCES:

1-2005 Submitted to: International Association for Food Protection Publication Date: July 15, 2005 Citation: Bailey, J.S., Cray, P.J., Berrang, M.E., Plumblee, J. 2005. Comparison of petrifilm and chromagar ecc for isolation of e. coli from chicken [abstract].International Association for

2-2001 2001, National Institute of Industrial Technology

3-1999 Alonso J. L. et al. . 1999. Applied and Environmental Microbiology, 65 : 3746-3749.

4-A comparative study of selective media used to detect and confirm coliforms and Escherichia coli in water samples using membrane filtration 1995 1995. Abstract by Collyer J.



Aseptic Sterile



Batch Code



Catalogue Number



Negative Controls



Positive Controls



Use by



Temperature  
Limitation



Do not reuse



Contains sufficient  
for <n> tests



Look at user manual



Manufacturer