

CHROMATIC DETECTION

Dehydrated chromogenic medium for enumeration and identification of microorganisms from clinical specimens and foods.

TYPICAL FORMULA (g/L)

Peptone	14.0
Yeast Extract	3.0
Tryptone	6.0
Sodium Chloride	5.0
Chromogenic mix	13.125
Agar	15.0
Final pH 7.2 ± 0.2	

DESCRIPTION

Chromogenic medium for enumeration and identification of microorganisms from clinical specimens and foods. Its particular formulation allows also to carry out the direct indole test to confirm *Escherichia coli*.

PRINCIPLE

Peptone, tryptone and yeast extract are a source of amino acids and vitamins. Sodium chloride maintains the osmotic balance of the medium. The chromogenic mix allows the identification of microorganisms on the basis of the color and morphology of the colonies.

PREPARATION

Suspend 56,125 g of powder in 1 L of sterile distilled or deionized water. Heat until completely dissolved. Sterilize in autoclave at 121 °C for 15 minutes. Dispense in petri dishes.

TECHNIQUE

Inoculate the surface of the medium with 10 µL of the specimen to examine, using a sterile loop. Incubate at: 36+/-1°C for 18-24 hours. Observe the growth and color of the colonies.

INTERPRETATION OF RESULTS

Interpret results as indicated in table n°1.

Table n°1

Microorganisms	Growth	Typical appearance of the colonies
<i>Escherichia coli</i>	Good	Pink
<i>Klebsiella pneumoniae</i>	Good	Green-blue
<i>Proteus mirabilis</i>	Good	Brown
<i>Pseudomonas aeruginosa</i>	Good	Yellowish
<i>Staphylococcus aureus</i>	Good	Cream
<i>Enterococcus faecalis</i>	Good	Green-Turquoise

Final identification must be performed by biochemical and/or serological tests.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed until the expiry date on the label or until signs of deterioration or contamination are evident.

Store prepared media at 2-8 °C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥ 1%.

The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. J. Merlino, S. Siarakas, G.J. Robertson, G.R. Funnel, T. Gottlieb, and R. Bradbury. Evaluation of Colorex Orientation for differentiation and presumptive identification of Gram-negative bacilli and *Enterococcus* species. *J. Clin. Microbiol.* 1996, 34: 1788-1793.
2. Z. Samra, et al. Evaluation of use of a new chromogenic Agar in detection of urinary tract pathogens. *J. Clin. Microbiol.* 1998, 36: 990-994.



Liofilchem s.r.l.

Via Scozia, Zona industriale - 64026 Roseto degli Abruzzi (Te) Italy - Tel. +39.0858930745 - Fax +39.0858930330
Web site: <http://www.liofilchem.net> - E-mail: liofilchem@liofilchem.net

PRODUCT SPECIFICATIONS

NAME
CHROMATIC DETECTION

PRESENTATION
Dehydrated culture medium

STORAGE
10-30 °C

PACKAGING

Code	Content	Packaging
610612	500 g	500 g of powder in plastic bottle
620612	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM
7.2 ± 0.2

USE
Chromogenic medium for enumeration and identification of microorganisms from clinical specimens and foods. Its particular formulation allows also to carry out the direct indole test to confirm *Escherichia coli*.

TECHNIQUE
Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM
Dehydrated medium
Appearance: free-flowing, homogeneous.
Colour: beige
Prepared medium
Appearance: clear
Colour: beige

SHELF LIFE
2 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control

7 days at 20 ± 2°C
7 days at 35 ± 2°C

- Microbiological control

Inoculum for productivity: 10-100 UFC/ml
Incubation conditions: 18-24 hours at 35 ± 2°C

Microorganisms		Growth
<i>Escherichia coli</i>	ATCC 25922	Good
<i>Klebsiella pneumoniae</i>	ATCC 13883	Good
<i>Proteus mirabilis</i>	ATCC 25933	Good
<i>Pseudomonas aeruginosa</i>	ATCC 27853	Good
<i>Staphylococcus aureus</i>	ATCC 25923	Good
<i>Enterococcus faecalis</i>	ATCC 19433	Good

TABLE OF SYMBOLS

LOT Batch code	Temperature limitation	Manufacturer	Contains sufficient for <n> tests
REF Catalogue number	Keep away from heat	Use by	Caution, consult accompanying documents



Liofilchem s.r.l.

Via Scozia, Zona industriale - 64026 Roseto degli Abruzzi (Te) Italy - Tel. +39.0858930745 - Fax +39.0858930330
Web site: <http://www.liofilchem.net> - E-mail: liofilchem@liofilchem.net