

Liquid Chromogenic Culture Medium



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Coliforms and E. coli liquid chromogenic medium

Performance Characteristics

- 1. It is included in the "Japan Food Hygiene Guide" (2004 edition) with strong authoritative influence.
- 2. There are two kinds of chromogenic substances, which can directly recognize coliforms and E. coli.
- 3. The test results can be obtained within 24 hours, but BGLB needs 48 hours.
- 4. No need for fermentation tube and constant temperature pool with low cost and easy operation.
- 5. No need to prepare medium and wash tubes (except XM powder medium).
- 6. No need for identification and supplementation experiments such as EMB culture.
- 7. E.coli O157 cannot be identified separately but qualitative testing only.

Name	Model	Application	Capacity	Packing	Validity Period
Liquid chromogenic culture medium	XM-30	For 1ml sample inspection	10ml/cup	128 cups/carton	
Liquid chromogenic culture medium	XM-31	For 10ml sample inspection	10ml/cup	128 cups/carton	1year
Liquid chromogenic culture medium	XM-32	For 5ml sample inspection	5ml/cup	128 cups/carton	
XM powder medium	XM0001	For preparing medium	8.5g/bag	20 bags/carton	3year
MT opener	OS-01	For MT container opening	/	1pc	/

Usage Method

- 1. Container surface sterilization: The aluminum foil surface should be disinfected with an alcohol lamp before use.
- 2. Opening: Open the aluminum foil with an MT opener (OS-01) or open directly with a sterile pipette.

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3. Inject the sample diluents: use a pipette to inject the sample dilution into the cup.

XM-30: 1ml, XM-31: 10ml, XM-32: 5ml.

- 4. Cultivation: Culture time: 24 hours; Culture temperature: 36 ± 1 °C
- 5. Disposal: Dispose of them after sterilization

 \times XM powder medium usage: Dissolve 500ml of pure water per bag, inject 10ml into the test tube, autoclave, then inject 1ml sample, and incubate at 36 \pm 1 $^{\circ}$ C for 24 hours. The identification method is the same.

Coloring Principle

Coliforms positive

There is a special β -galactosidase only exit in the coliforms. It can be used as an indicator enzyme for coliform bacteria, which catalyzes the hydrolysis of the substrate X-GAL to form 5,5-dibromo -4,4-dichloro indigo, appearing light blue \sim purple blue.

E. coli positive

 β --glucuronidase can be used as an indicator enzyme for Escherichia coli; because β -glucuronidase can be observed in Escherichia coli, Salmonella and Shigella in intestinal bacteria, and 95% of E. coli contains β -glucuronidase. It catalyzes the hydrolysis of MUG to form 4-methylumbelliferon, which exhibits fluorescence at 366 nm ultraviolet light and is visually discernible under indoor light intensity.

Operation and Coloring



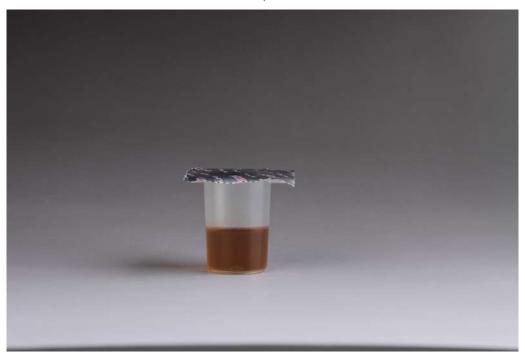
Step 1



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Step 2



Primary color – negative





Blue - coliforms positive



Fluorescence--E. coli positive