

Medium with an oxygen substrate for simultaneous inspection of coliform bacilli and *E. coli*

Sodium Dodecyl Sulfate Magenta-GAL · X-GLUC Agar

Listed In Japanese Food Sanitation Inspection Guidelines, Supplement II

Klebsiella pneumoniae(coliform)

Escherichia (coliform)



Proteus mirabilis (Other enterobacteria)

Colonies are distinctly colored

Coliform and *E. coli* are colored on a **red** and **blue** transparent agar, respectively, thus allowing for easy identification.

E.coli positive

β -glucuronidase is a specific enzyme found only in *E. coli* among enterobacteria, except for *Salmonella* and *Shigella*. It is present in 95% of all *E. coli*. β -glucuronidase hydrolyzes the coloring enzyme-substrate complex X-GLUC, creates blue ~ purplish-blue.

Coliform positive

β -galactosidase produced by coliform hydrolyzes the coloring enzyme-substrate complex MAGENTA-GAL, creates **red** ~ **purplish**.

Precaution

All gram-negative enterobacteria, except for coliform, form white colonies. This agar uses sodium dodecyl sulfate as a gram-positive bacterial inhibitor. Not all of the enterobacteria are fostered.

- ★ Sterilize the used agar before disposal.
- ★ Specifications are subject to be change without notice, for remodeling or quality enhancement.

Product Name	Pro·media AGAR TRICOLOR	
Code No.	XMA-01	XMA-400
Volume	157g (7.85g / pouch × 40)	400g / bottle
Recipe	Sodium Dodecyl Sulfate Magenta-GAL, X-GLUC, Others	
Preparation:	Dissolve 39.3g in 1 liter pure water or 7.85g (1 aluminium bag) in 200ml of pure water by heating (100°C)* or autoclave (15 minutes at 121°C). *Please use up the heated tricolor on the prepared day.	
Experimental procedure:	<p>Mixing method: Pour sample and tolicolor in a plate and mix rapidly and gently.</p> <p>Spread method: Inoculate by spreading the sample material thinly on the surface of the plates.</p>	
Incubation:	24 hours at 36°C.	

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