

Tergitol-7 Agar

Catalog : HB0143-1

Tergitol-7 Agar is used for the identification of coliforms.

Approximate Formula:

Ingredients	gm/liter
Pancreatic Digest of Casein	10.0
Yeast Extract	6.0
Beef Extract	5.0
Lactose	20.0
Bromothymol Blue	0.05
Agar	15.0
Tergitol-7	0.1
Final pH7.2±0.2 at 25 °C	

*Adjusted and/or supplemented as required to meet performance criteria.

Directions:

Suspend 56.15g of the medium in one liter of deionized or distilled water. Heat to dissolve. Sterilize in an autoclave at 121 °C (15 lbs.) for 15 minutes. When cooling to about 50 °C, add 4ml of filter-sterilized 1% TTC solution, mix thoroughly and pour into sterile petri dishes.

Principle and Interpretation:

Pancreatic digest of casein, yeast extract and beef extract provide carbon and nitrogen sources. Lactose is the fermentable carbohydrate of coliform. Bromothymol blue is the pH indicator. Tergitol-7 is the surfactant. Agar is a solidifying agent.

Appearance:

Dehydrated medium is a free-flowing yellowish-green powder. The prepared medium is a kind of green transparent fluid.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

Tergitol-7 Agar must be stored tightly capped in the original container at 5-30 °C. The dehydrated medium has a shelf life of 5 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8 °C.

Quality control:

Prepare the culture medium as per label directions. Inoculate and incubate at 36±1 °C for 18-24 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Recovery	Colony color
<i>Staphylococcus aureus</i>	ATCC 6538	> 10 ³	Inhibited	/	/
<i>Enterobacter cloacae</i>	ATCC 23355	20-200	Luxuriant	≥70%	Yellow-red, yellow around
<i>Salmonella typhimurium</i>	ATCC 14028	> 10 ³	Luxuriant	/	Red
<i>Escherichia coli</i>	ATCC 25922	20-200	Luxuriant	≥70%	Yellow-red, yellow around
<i>Enterobacter aerogenes</i>	ATCC 13048	20-200	Luxuriant	≥70%	Yellow-red, yellow around

References:

1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.
2. European Directorate for the Quality of Medicines and Healthcare. 2008. The European pharmacopoeia, 6th ed., Supp. 1, 4-1-2008, online. European Directorate for the Quality of Medicines and Healthcare, Council of Europe, 226 Avenue de Colmar BP907-, F-67029 Strasbourg Cedex 1, France.