

TM 592 - YT AGAR

INTENDED USE

For growth of *Escherichia coli* K12 strains used in the preparation of phage and plasmid DNA according to Miller.

PRODUCT SUMMARY AND EXPLANATION

YT Agar is used for the growth of *Escherichia coli* K12 strain used in preparation of phase and plasmid DNA according to Miller.

COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	8.000
Yeast extract	5.000
Sodium chloride	5.000
Agar	10.000

PRINCIPLE

Casein enzymic hydrolysate and yeast extract provides sources of nitrogen and growth factors which allow the bacteria to recover from the stress of transformation and grow well. Sodium chloride provide essential ion.

INSTRUCTION FOR USE

- Dissolve 28.00 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium	: Light amber coloured clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 7.0±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Bacillus subtilis</i>	6633	50-100	Luxuriant	≥70%	35-37°C	18-24 Hours
<i>Enterobacter aerogenes</i>	13048	50-100	Luxuriant	≥70%	35-37°C	18- 24 Hours



<i>Escherichia coli</i>	25922	50-100	Luxuriant	$\geq 70\%$	35-37°C	18- 24 Hours
<i>Enterococcus faecalis</i>	29212	50-100	Luxuriant	$\geq 70\%$	35-37°C	18- 24 Hours
<i>Lactobacillus casei</i>	9595	50-100	Luxuriant	$\geq 70\%$	35-37°C	18- 24 Hours
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant	$\geq 70\%$	35-37°C	18- 24 Hours
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	$\geq 70\%$	35-37°C	18- 24 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.













Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. H. Miller Meth Enzymol; 152 ,145, (1987).

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**



Revision: 08 Nov., 2019

