Yeast Extract Agar

Catalog : HB0157-500

Yeast Extract Agar is used for the detection of total bacteria in water. This medium is recommended by ISO 6222 for the plate count of microorganisms in all types of water.

Approximate Formula:

Ingredients	gm/liter
Yeast Extract	3.0
Pancreatic Digest of Casein	6.0
Agar	15.0

Final pH7.2±0.2 at 25℃

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

Directions:

Suspend 24.0g of the medium in one liter of deionized or distilled water. Heat to dissloved. Sterilize in an autoclave at 121°C for 15 minutes, allow to cool and maintain it at(45±1)℃ using the bath, It is recommended to store the medium not longer than 4h at 45℃.

Principle and Interpretation:

Pancreatic digest of casein provides nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is the water-soluble portion of hydrolyzed yeast and is a source of vitamins, particularly of the B-group. Agar is the solidifying agent.

Appearance:

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

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:

Yeast Extract Agar must be stored tightly capped in the original container at 5-30°C. The dehydrated medium has a shelf life of 3 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 37℃ for 24-48h.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Recovery	Remarks
Staphylococcus aureus	ATCC 6538	20-200	Luxuriant	≥ 70%	Yellowish colonies
Escherichia coli	ATCC 8739	20-200	Luxuriant	≥ 70%	Colorless large colonies
Pseudomonas aeruginosa	ATCC 9027	20-200	Luxuriant	≥ 70%	Green colonies
Bacillus subtilis	ATCC 6633	20-200	Luxuriant	≥ 70%	White irregular colonies

Reference:

1. ISO 6222 Water Quality. Enumeration of culturable micro-organisms- colony count by inoculation in a nutrient agar culture medium.

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