TAT Broth

Catalog : HB5226-2-500

TAT Broth is used for microbiological detection in cosmetics and pharmaceuticals.

Approximate Formula:

Ingredients	gm/liter
Peptone	20.0
Lecithin	5.0

Final pH7.2±0.2 at 25℃

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

Directions:

Suspend 25.0g of the medium and 40.0g of Tween-20 in one liter of deionized or distilled water. Heat to completely dissolved. Sterilize in an autoclave at 121℃(15 lbs.) for 15 minutes.

Principle and Interpretation:

Peptone provides carbon source, nitrogen source; Soy lecithin and Tween-20 neutralize preservatives in cosmetics and medicines, which is good for bacteria growth.

Appearance:

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

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:

TAT Broth 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 35±2℃ for 24-120 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Remarks
Escherichia coli	ATCC 25922	10-100	Luxuriant	Turbid
Staphylococcus aureus	ATCC 6538	10-100	Luxuriant	Turbid
Bacillus subtilis	ATCC 6633	10-100	Luxuriant	Turbid
Pseudomonas aeruginosa	ATCC 9027	10-100	Luxuriant	Turbid
Candida albicans	ATCC 10231	10-100	Luxuriant	Turbid

References:

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4. HUGO, W.B., a. FRIER, M.: Mode of action on the antibacterial compound desqualinium acetate. – Appl. Microbiol., 17 ; 118-127 (1969).

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