

SB Medium

Catalog : HBDC005-1-500

SB Medium is used for massive cultivation of *Escherichia coli* strains in molecular genetics procedures.

Approximate Formula:

Ingredients	gm./liter
Tryptone	20.0
Yeast Extract	5.0
Sodium Chloride	0.5

Final pH 7.0±0.2 at 25 °C

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

Directions:

Suspend 57.0g of the medium in 1000ml of deionized or distilled water. Mix well and heat with frequent agitation to completely dissolve the powder. Dispense into flasks or tubes. Sterilize in an autoclave at 121 °C (15 lbs.) for 15 minutes.

Principle and Interpretation:

Tryptone provides nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is source of vitamins, particularly the B group. Sodium chloride and potassium chloride provide essential ions.

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:

SB Medium 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	Remarks
<i>Escherichia coli</i>	ATCC 33694	10-100	luxuriant	Turbid
<i>Escherichia coli</i>	ATCC 53868	10-100	luxuriant	Turbid

References:

1. Atlas R.M., 2004, Handbook of Microbiological Media, Parks L.C. (Ed.), CRC Press, Inc