

# PRODUCT INFORMATION

## SOB Medium

Cat. No. S19-124



**ALPHA**<sup>™</sup>  
BIOSCIENCES

Date of Issue:  
10/01/17

### DESCRIPTION

SOB Medium, also referred to as Super Optimal Broth or Hanahan's Broth, is recommended for use in the cultivation of recombinant strains of *E. coli*.

### PREPARATION

Mix 28 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring to dissolve completely. Autoclave at 121°C for 15 minutes.

#### Formula\* per Liter:

Enzymatic Digest of Casein .....	20.0g
Yeast Extract .....	5.0g
Sodium Chloride .....	0.5g
Magnesium Sulfate .....	2.4g
Potassium Chloride .....	0.186g

**Final pH:** 7.0 ± 0.2 at 25°C

\* Grams per liter may be adjusted or formula supplemented to obtain desired performance.

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and light beige.
2. Visually the prepared medium is clear with little or no precipitate and light yellow.
3. Expected cultural response after 18-24 hours at 35°C.

#### Organism:

*Escherichia coli* ATCC® 23724  
*Escherichia coli* ATCC® 33694  
*Escherichia coli* ATCC® 33849  
*Escherichia coli* ATCC® 39403  
*Escherichia coli* ATCC® 47014  
*Escherichia coli* ATCC® 53868

#### Result:

Growth  
Growth  
Growth  
Growth  
Growth  
Growth

### STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.