

## PRODUCT INFORMATION

2xYT Agar

Cat. No. X24-106

### DESCRIPTION

2xYT Agar is used for cultivating recombinant strains of *Escherichia coli* and for the growth and maintenance of M13 phages and other filamentous bacteriophages.

### FORMULA (g/L)

Enzymatic Digest of Casein	16.0 g	Sodium Chloride	5.0 g
Yeast Extract	10.0 g	Agar	15.0 g

Final pH: 7.0 ± 0.2 at 25 °C

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

### PREPARATION

Mix 46 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and beige.
2. Visually the prepared medium is brilliant to clear, with none to light precipitate and yellow.
3. Expected cultural response after 18-24 hours at 35 ± 2°C.

ORGANISM	RESULT
<i>Escherichia coli</i> ATCC 23724	Good Growth
<i>Escherichia coli</i> ATCC 33694	Good Growth
<i>Escherichia coli</i> ATCC 33849	Good Growth
<i>Escherichia coli</i> ATCC 39403	Good Growth
<i>Escherichia coli</i> ATCC 47014	Good 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.

Version 01 – Date 09/08/23