

PRODUCT INFORMATION

A-1 Medium

Cat. No. A01-116

DESCRIPTION

A-1 Medium is used for the detection of fecal coliforms in water. This medium is formulated to hasten the recovery of *Escherichia coli* and to reduce the incidence of false positive tests. This medium can be used as a single-step procedure for the detection of fecal coliforms in a variety of food and water sources. Tryptone provides nitrogen, vitamins, minerals and amino acids. Lactose is the carbon source and, with salicin, provides energy for organism growth. Sodium chloride maintains the osmotic balance. Triton X-100 is a surfactant.

FORMULA (g/L)

Tryptone	20.0 g	Salicin	0.5 g
Lactose	5.0 g	Triton X-100	1.0 g
Sodium Chloride	5.0 g		

Final pH: 6.9 ± 0.2 at 25 °C

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

PREPARATION

Mix 31.5 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 with soft lumps and very light beige.
2. Visually the prepared medium is light yellow, clear to brilliant, with none to light precipitate.
3. Expected cultural response after 3 hours at 35±2 °C aerobically, followed by incubation in a 44.5 °C water bath for 19-23 hours:

ORGANISM	RESULT
<i>Bacillus subtilis</i> ATCC 6633	Inhibited
<i>Enterobacter aerogenes</i> ATCC 13048	Growth – Gas negative/weak positive (+/-)

<i>Enterococcus faecalis</i> ATCC 29212	None/Fair Growth – Gas negative (-)
<i>Escherichia coli</i> ATCC 25922	Good Growth – Gas positive (+)
<i>Escherichia coli</i> O157:H7 ATCC 35150	Good Growth – Gas positive (+)

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.