

PRODUCT INFORMATION

R2B Broth

Cat. No. R18-100B

DESCRIPTION

R2B medium is used for the detection of heterotrophic bacteria in water, especially in treated potable water. This is a low-nutrient medium in which a combination of longer time and lower temperature of incubation promotes the growth of stressed and chlorine-treated bacteria. Enzymatic Digest of Casein and Animal Tissue provide nitrogenous sources for bacterial growth. Yeast Extract supplies B-complex vitamins and serves as growth enhancer. Dextrose is the fermentable carbohydrate. Soluble starch serves as neutralizer, while Sodium Pyruvate stimulates the growth of stressed bacteria. Dipotassium Phosphate and Magnesium Sulfate Heptahydrate act as pH buffers.

FORMULA (g/L)

Casein acid peptone	0.5 g	Yeast extract	0.5 g
Dextrose	0.5 g	Proteose peptone	0.5 g
Potassium phosphate dibasic	0.3 g	Soluble starch	0.5 g
Sodium pyruvate	0.3 g	Magnesium sulfate	0.1 g

Final pH: 7.2 ± 0.2 at 25 °C

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

PREPARATION

Mix 3.2 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 light beige to beige.
2. Visually the prepared medium (without agar) is light beige, and clear to brilliant.
3. Expected cultural response after up to 5 days at 35 °C ± 2°C.

ORGANISM	RESULT
<i>Enterococcus faecalis</i> ATCC 29212	Good Growth
<i>Escherichia coli</i> ATCC 11775	Good Growth
<i>Escherichia coli</i> ATCC 25922	Good Growth
<i>Staphylococcus aureus</i> ATCC 25923	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.