

PRODUCT INFORMATION

Bolton Broth

Cat. No. B02-132

DESCRIPTION

Bolton Broth is used for the selective enrichment of *Campylobacter* in food samples. It includes lactalbumin hydrolysate as a source of nitrogen, amino acids, vitamins and carbon specially indicated for *Campylobacter* growth. Alpha-ketoglutarate is also added to satisfy the nutritional requirements of *Campylobacter*. Hemin stimulates the growth of microorganisms, and the addition of Bolton Selective Supplement inhibits the growth of other bacteria, yeasts and molds.

FORMULA (g/L)

Enzymatic digest of animal tissue	10.0 g	Sodium carbonate	0.6 g
Yeast Extract	5.0 g	Sodium pyruvate	0.5 g
Lactalbumin hydrolysate	5.0 g	Sodium metabisulfite	0.5 g
Sodium Chloride	5.0 g	Hemin	0.01 g
Alpha-ketoglutarate	1.0 g		

Final pH: 7.4 ± 0.2 at 25 °C

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

PREPARATION

Mix 13,8 grams of the medium in 475 mL 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. Cool below 47 °C and aseptically add Bolton Selective Supplement and 25 mL of sterile lysed horse blood. Homogenize gently and dispense into tubes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light beige.
2. Visually the prepared medium is dark amber to red, with none to moderate precipitate, and trace to moderately hazy.
3. Expected cultural response after 24-72 hours at 35 °C.

ORGANISM	RESULT
<i>Campylobacter jejuni</i> ATCC 29428	Good Growth
<i>Campylobacter jejuni</i> ATCC 33291	Good Growth
<i>Enterococcus faecalis</i> ATCC 29212	Inhibited
<i>Escherichia coli</i> ATCC 25922	Inhibited
<i>Proteus mirabilis</i> ATCC 12453	Inhibited

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.