

Bolton Broth

Use and description:

Bolton Broth Base is used for the selective enrichment of *Campylobacter* species from foods. Must be supplemented with 4 kinds of antibiotics (cefoperazone , vancomycin, trimethoprim, amphotericin)

Composition per liter g/l :

Meat peptone	10.00
Lactalbumin hydrolysate	6.0
Hemin	0.01
Alpha ketoglutaric acid	1.0
Sodium Pyruvate	0.5
Yeast extract	5.0
Sodium chloride	6.0
Sodium metabisulphite	0.5

Final pH of the ready to use medium: 7.4±0.2 at 25.0 °C

Medium preparation:

Add 14,5 grs of to 500ml distilled water . Sterilize by autoclaving at 121C for 15 minutes . Cool to 50C and aseptically add Bolton supplement (1 vial) and 25 ml of sterile lysed defibrinated horse or sheep blood .

Quality specifications:

1. The powder is homogeneous, free flowing and light yellow
2. Ready to use medium: brownish yellow slightly opalescent

Microbiological response after 4-6 hours at 35-37°C and 41,5°C for 44-48 hours

Organism	inoculum	Growth
Candida albicans ATCC 10231	1000-	inhibited
Campylobacter coli ATCC 335591	50-100	good-lux
Campylobacter jejuni ATCC29428	50-100	good-lux
Eschericia coli ATCC25922	1000-	inhibited

Storage:

Store the sealed bottle containing the dehydrated medium at 25 to 30.0 °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 light beige color.