

## PRODUCT INFORMATION

Columbia Broth

Cat. No. C03-112

### DESCRIPTION

Columbia Broth is used for the cultivation of fastidious and non-fastidious organisms. Eller et al. First described Columbia broth. It was designed to produce rapid and luxuriant growth of a range of organisms due to its high nutrient content. It contains meat peptone, casein peptone and yeast extract, all of which are highly nutritious components. The meat peptone contains sufficient sulfonamide antagonists to prevent sulfonamide inhibition of growth. Columbia Broth, in the presence of CO<sub>2</sub> and supplemented with SPS is an excellent blood culture medium.

### FORMULA (g/L)

|                                |        |                   |        |
|--------------------------------|--------|-------------------|--------|
| Casein Digest Peptone          | 5.0 g  | Dextrose          | 2.5 g  |
| Peptic Digest of Animal Tissue | 5.0 g  | Sodium Chloride   | 5.0 g  |
| Yeast Enriched Peptone         | 10.0 g | L-Cystine HCl     | 0.1 g  |
| Tryptic Digest of Heart Muscle | 3.0 g  | Magnesium Sulfate | 0.1 g  |
| Tris Aminomethane              | 0.8 g  | Ferrous Sulfate   | 0.02 g |
| Tris Aminomethane HCl          | 2.9 g  | Sodium Carbonate  | 0.6 g  |

Final pH: 7.3 ± 0.2 at 25 °C

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

### PREPARATION

Mix 35 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.
2. Visually the prepared medium is gold to amber and clear.
3. Expected cultural response after 18-48 hours at 35 °C.



| ORGANISM                                  | RESULT      |
|---|-------------|
| <i>Neisseria meningitides</i> ATCC 13090  | Good Growth |
| <i>Staphylococcus aureus</i> ATCC 25923   | Good Growth |
| <i>Streptococcus pneumoniae</i> ATCC 6305 | Good Growth |
| <i>Streptococcus pyogenes</i> ATCC 19615  | 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.