

PRODUCT INFORMATION

Columbia Blood Agar Base

Cat. No. C03-111

DESCRIPTION

Columbia Blood Agar Base is used for the cultivation of fastidious and non-fastidious microorganisms. The enriched medium is usually prepared with horse, sheep, or rabbit blood to determine the hemolytic reactions of fastidious pathogenic microorganisms. Columbia Blood Agar Base can be prepared as Blood Agar or Chocolate Agar or used without blood as a general addition of starch enhances the recovery of *Neisseria* and hemolytic reactions of some *Streptococcus*.

FORMULA (g/L)

Enzymatic Digest of Casein	5.0 g	Potato Starch	1.0 g
Meat Peptone	8.0 g	Sodium Chloride	5.0 g
Yeast Enriched Peptone	9.0 g	Agar	15.0 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 43.0 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. To prepare blood agar, cool media to 45-50 °C and aseptically add 5% sterile defibrinated blood. Mix well.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and beige.
2. Visually the prepared medium is light amber with light haze. When prepared with blood, medium appears opaque and red.
3. Expected cultural response after 18-48 hours at 35 °C.



ORGANISM	RESULT
<i>Escherichia coli</i> ATCC 25922	Good Growth – Beta Hemolysis
<i>Staphylococcus aureus</i> ATCC 25923	Good Growth – Beta Hemolysis
<i>Streptococcus pneumoniae</i> ATCC 6305	Good Growth – Alpha Hemolysis
<i>Streptococcus pyogenes</i> ATCC 19615	Good Growth – Beta Hemolysis
<i>Pseudomonas aeruginosa</i> ATCC 27853	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.