PRODUCT INFORMATION

Cystine Heart Agar

Cat. No. C03-122

YOUR MEDIA IS OUR CULTURE

ALPHA BIOSCIENCES

Date of Issue:
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DESCRIPTION

Cystine Heart Agar is a solid medium recommended for the cultivation of the tularemia-causing bacteria *Francisella tularensis*, and without enrichment for Gram-negative cocci and other pathogenic organisms. Beef Heart Infusion and peptone provide amino acids, peptides, carbohydrates, vitamins, and minerals. Dextrose is the fermentable carbohydrate. L-Cystine is a reducing agent allowing the growth of *F.tularensis*. Agar is the solidifying agent. Rabbit Blood and antimicrobial agents can be added to enrich the medium.

Formula* per Liter:

Beef Heart Infusion Solids	10.0g
Proteose Peptone	10.0g
Sodium Chloride	5.0g
Dextrose	10.0g
L-Cystine	1.0g
Agar	15.0g

Final pH: 6.8 ± 0.2 at 25°C

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

PREPARATION

Prepare double strength medium by mixing 10.2g of agar medium in 100 mL of purified water until evenly dispersed. Heat with repeated stirring until boiling to dissolve completely. Autoclave at 121°C for 15 minutes. Cool to 45-50ºC and aseptically add 100 mL of sterile 2% hemoglobin solution. (To prepare the 2% hemoglobin solution: place 2.0g of hemoglobin in a clean, dry flask. Add 100 mL purified water while mixing vigorously. Stir for 10-15 minutes until immersed into solution. Autoclave at 121°C for 15 minutes).

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing and beige.
2. Visually the prepared medium is hazy and light amber as plain solution, opaque and brown with hemoglobin.
3. Expected cultural response after 66-72 hours at 35°C (with Neisseria incubated under CO_2 conditions):

Organism:	**Result:**
Staphylococcus aureus ATCC 25923	Growth
Neisseria meningitidis ATCC 13090	Growth
Streptococcus pneumoniae ATCC 6305	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.

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