OTHER MICROBIOLOGICAL MEDIA

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http://biology.clc.uc.edu/fankhauser/Labs/Microbiology/Media_Preparation/Media_Phage.htm

The following media have been used in past years, and may be used under some circumstances. These media may be prepared and used for a variety of experiments including propagation of fastidious microorganisms and the propagation, titering and genetic crossing of bacterial viruses (bacteriophage). See the protocol Microbiological Media Preparation for principles and practices of media prep.

TRYPTONE GLUCOSE EXTRACT AGAR
14.4 g/600 mL
(a Standard Plate Count Agar, for enumeration of bacteria in milk, meat, etc.)

Ingredients per liter:
- Tryptone: 5.0 g
- Beef Extract: 3.0 g
- Dextrose: 1.0 g
- Agar: 15.0 g

BRAIN HEART INFUSION AGAR:
31.0 g/600 mL water
(Highly enriched for fastidious organisms)

Ingredients per liter:
- Calf Brains, infusion from: 200.0 g
- Beef hearts, infusion from: 250.0 g
- Proteose Peptone: 10.0 g
- Glucose: 2.0 g
- Sodium Chloride: 5.0 g
- Disodium phosphate: 2.5 g
- Agar: 15.0 g

TRYPTIC SOY AGAR:
24.0 g/600 mL
(Enriched for fastidious organisms)

Ingredients per liter:
- Tryptone (pancreatic digest of casein): 15.0 g
- Soytone (Papiac soybean meal digest): 5.0 g
- Sodium Chloride: 5.0 g
- Agar: 15.0 g

LB AGAR, MILLER (Luria-Bertani)
24 g/600 mL
For the cultivation Escherichia coli, titering of coliphae, especially the fastidious lambda bacteriophage.

Ingredients per liter:
- Bacto-Tryptone: 10.0 g
- Bacto-Yeast Extract: 5.0 g
- Sodium Chloride: 10.0 g
- Bacto-Agar: 15.0 g
- 1 M CaCl₂ (2 mL/L medium): 1.2 mL
(I have made the modification of CaCl₂.)

DEFINED SYNTHETIC MEDIUM (E. coli)
(from Bauman’s Microbiology, 2nd, p 179.)
For 1 liter:
- Na₂HPO₄: 16.4 g
- K₂HPO₄: 1.5 g
- (NH₄)₂PO₄: 2.0 g
- MgSO₄·7H₂O: 0.2 g
- CaCl₂: 0.01 g
- FeSO₄·7H₂O: 0.005 g
- glucose: 1.0 g

DEFINED SYNTHETIC MEDIUM (E. coli)
(from Alcamo’s Fund. of Micro, p 144)
For 1 liter:
- NH₄H₂PO₄: 1.0 g
- NaCl: 5.0 g
- K₂HPO₄: 1.0 g
- MgSO₄: 0.2 g
- glucose: 5.0 g