EUGON AGAR

INTENDED USE
Remel Eugon Agar is a solid medium recommended for use in qualitative procedures for the cultivation of a wide variety of microorganisms.

SUMMARY AND EXPLANATION
Eugon Agar was developed by Vera to obtain eugonic (luxuriant) growth of bacteria, such as *Neisseria, Haemophilus,* and *Brucella.*[1] Pelczar and Vera used this medium for the enumeration of bacteria in milk products.[2] Animal blood may be added to obtain better growth of pathogenic fungi, such as *Blastomyces* and *Histoplasma.*[3] Eugon Agar is included in the *Compendium of Methods for the Microbiological Examination of Foods.*[4]

PRINCIPLE
Casein and soy peptones provide nitrogen, amino acids, and peptides necessary for bacterial growth. Sodium chloride is a source of essential electrolytes and maintains osmotic equilibrium. Dextrose provides a ready source of energy. L-cystine, a reducing agent, and sodium sulfite are added to stimulate growth of microorganisms. Agar is a solidifying agent.

REAGENTS (CLASSICAL FORMULA)*

Casein Peptone	15.0	g
Dextrose	5.5	g
Soy Peptone	5.0	g
Sodium Chloride	4.0	g
L-Cystine	0.2	g
Sodium Sulfite	0.2	g
Agar	15.0	g
Demineralized Water	1000.0	ml

pH 7.0 ± 0.2 @ 25°C

*Adjusted as required to meet performance standards.

PRECAUTIONS
This product is for Laboratory Use only. It is not intended for use in the diagnosis of disease or other conditions.

PREPARATION OF DEHYDRATED CULTURE MEDIUM
1. Suspend 45 g of medium in 1000 ml of demineralized water.
2. Heat to boiling with agitation to completely dissolve.
3. Sterilize by autoclaving at 121°C for 15 minutes or following established laboratory procedures.
4. If blood is to be added, cool medium to 45-50°C and aseptically add defibrinated blood to a concentration of 5-10%.
5. Dispense into appropriate containers.

PROCEDURE
1. Consult current editions of appropriate references for the recommended procedure for sample preparation, inoculation, and testing.[4,5]

QUALITY CONTROL
Each lot number of Eugon Agar has been manufactured, packaged, and processed in accordance with current Good Manufacturing Practice regulations. All lot numbers have been tested using the following quality control organisms and have been found to be acceptable. Testing of control organisms should be performed in accordance with established laboratory quality control procedures.

CONTROL	INCUBATION	RESULTS
Escherichia coli ATCC® 25922	Aerobic, 18-24 h @ 33-37°C	Growth
Pseudomonas aeruginosa ATCC® 27853	Aerobic, 18-24 h @ 33-37°C	Growth
Staphylococcus aureus ATCC® 25923	Aerobic, 18-24 h @ 33-37°C	Growth
Streptococcus pneumoniae ATCC® 6305	Aerobic, 18-24 h @ 33-37°C	Growth
Streptococcus pyogenes ATCC® 19615	Aerobic, 18-24 h @ 33-37°C	Growth

BIBLIOGRAPHY

1. Vera, H.D. 1947. J. Bacteriol. 54:14.
2. Pelczar, Jr., M.J. and H.D. Vera. 1949. Milk Plant Monthly. 38:30-33.
3. MacFaddin, J.F. 1985. Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria. Vol. 1. Williams & Wilkins, Baltimore, MD.
4. Downes, F.P. and K. Ito. 2001. Compendium of Methods for the Microbiological Examination of Foods. 4th ed. APHA, Washington, D.C.
5. Isenberg, H.D. 2004. Clinical Microbiology Procedures Handbook. 2nd ed. ASM Press, Washington, D.C.

Refer to the front of Remel *Technical Manual of Microbiological Media* for **General Information** regarding precautions, product storage and deterioration, sample collection, storage and transportation, materials required, quality control, and limitations.

ATCC® is a registered trademark of American Type Culture Collection.

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