



Oxyrase, Inc.
3000 Park Ave. West
Mansfield, OH 44906
Ph.: 419-589-8800
Fax: 419-589-9919
www.oxyrase.com

AnaSelect® Blood Agar Plate Product Insert

* - US Patent #7,374,905

AnaSelect® blood agar plates are used to enhance the recovery of anaerobes from mixed cultures by preferentially limiting growth of aerobic and facultative microorganisms without affecting the growth of anaerobes from a variety of clinical and non-clinical sources.

Precautions:

AnaSelect® plates are for In-Vitro Use only. AnaSelect® plates are packaged aseptically and must be handled aseptically to maintain sterility during use. A **Safety Data Sheet** is available on our website.

Product Characteristics:

AnaSelect® plates contain a medium with blood, vitamin K₁, and hemin is an enriched, general purpose medium useful for the isolation of anaerobes (1,2,3). Vitamin K₁ and hemin provide nutrients for some strains of the pigmented *Bacteroides* group, and enhances the growth of some *Bacteroides* sp. and some gram-positive, non-spore forming anaerobes (4,5). Defibrinated sheep blood provides additional nutrients and enables the demonstration of hemolytic reactions. Sodium Azide inhibits facultative bacteria such as *E. coli* and *P. mirabilis*.

The Oxyrase® Enzyme System used in OxyPRAS Plus® plates provides a reduced medium before sterilization and maintains the medium in a reduced state for storage and during use. The Oxyrase® Enzyme System prevents the formation of undesirable oxidation products in these PRAS plates. Growth of anaerobes on OxyPRAS Plus® plates require anaerobic incubation in jars, bags, or chambers.

| <u>Media Formulation</u> (per liter) | <u>Initial pH: 7.3 (+/- 0.2)</u> |
|--------------------------------------|----------------------------------|
| Enzymatic Digest of Casein | 10.0 g |
| Enzymatic Digest of Animal Tissue | 10.0 g |
| Yeast extract | 2.0 g |
| Sodium Chloride | 5.0 g |
| Dextrose | 1.0 g |
| Sodium Bisulfite | 0.1 g |
| L-Cysteine | 0.1 g |
| Agar | 15.0 g |
| Sodium Azide | 0.1 g |
| Hemin | 5.0 mg |
| Vitamin K ₁ | 1.0 mg |
| Sheep Blood | 50.0 mL |
| Oxyrase® Enzyme System | - proprietary - |
| Deionized water | (made up to final volume) |

This formula is typical. Production lots may be adjusted, to offset variances in raw materials in order to meet performance criteria.

Limitations:

Detection of growth between facultative anaerobes and aerobes may require a longer incubation time on this medium; as well as, a secondary confirmation for comparison of colonies present.

Plates may only allow for growth of select organisms. Additional

testing may be required to identify various colony types grown.

The Oxyrase® Enzyme System contains a penicillin binding protein that may interfere with penicillin and some related antibiotics.

Handling and Storage Instructions:

AnaSelect® plates will arrive at room temperature. The following storage options are listed below:

1. Long Term Storage: Store the product at 2°C to 8°C. The expiration date of plates stored at this temperature is 4 months from the date of manufacture.
2. Short Term Storage: Store the product at 20°C to 25°C. The expiration date of plates stored at this temperature is 2 months from the date of manufacture.

If extended shelf life is not important, store plates at room temperature. Refer to plate / label for actual expiration date.

Instructions for Use:

Before use, allow AnaSelect® plates to warm to room temperature. Remove the plate from the protective pouch. Examine plates for contamination, evidence of oxidation / discoloration (i.e. plate is brown, instead of dark red), and the expiration date.

After inoculation is complete, invert plates and incubate in an anaerobic bag, jar, or chamber to maintain an anaerobic environment for at least 48 hours. Use an appropriate indicator (such as OxyBlue™) inside the plate, bag, jar, or chamber to test / confirm anaerobiosis.

Quality Control:

Oxyrase, Inc. certifies that samples of each lot were quality control tested and performed acceptably according to Oxyrase, Inc.'s specifications, which include Clinical and Laboratory Standards Institute (M22-A3: Quality Assurance for Commercially Prepared Microbiological Culture Media). The following tests were confirmed:

| <u>Organism</u> | <u>ATCC #</u> | <u>Results</u> |
|-----------------------|---------------|--|
| <i>B. fragilis</i> | 25285 | growth in 2-3 days |
| <i>C. perfringens</i> | 13124 | growth; hemolysis in 2-3 days |
| <i>F. nucleatum</i> | 25586 | growth in 2-3 days |
| <i>P. levii</i> | 29147 | growth; brown/black pigment in 2-3 days |
| <i>P. anaerobius</i> | 27337 | growth in 2-3 days |
| <i>P. mirabilis</i> | 12453 | growth inhibited; swarming significantly suppressed for 3 days |
| <i>E. coli</i> | 25922 | growth inhibited in 2-3 days |

Guarantee:

We guarantee 30 days of shelf-life for RT and 90 days of shelf-life for CT from shipment date. If a longer shelf-life is needed, this should be arranged at the time your order is placed. If AnaSelect® plates fail to arrive with at least a 4 week shelf life, are contaminated and or oxidized, or fail when used as specified under recommended storage and use conditions, Oxyrase, Inc. will refund your purchase price. To receive a product refund, write or call Oxyrase Inc. with the product lot number printed directly on the plate in question (a return of defective product may be required for further investigation and evaluation). Oxyrase, Inc. is available to answer any questions about this product and its applications.

ATCC is a trademark of the American Type Culture Collection
September 2018 Oxyrase, Inc. LAB.0099.v.006

1. J.F. MacFaddin. 1986. Media for Isolation, Cultivation, Identification, Maintenance of Medical Bacteria. J. Basic Microbiology. 26(4): 240.
2. Phillips, E., and P. Nash. 1985. Culture Media. Manual of Clinical Microbiology. 4: 1051-1092.
3. Sutter, V.L., Citron, D.M., Edelstein, M.A.C., and Finegold, S.M. 1985, 4th ed. **Wadsworth Anaerobic Bacteriology Manual**. Star Publishing Co., Belmont, CA. pgs.: 85-89.
4. Allen, S.D., Siders, T.A., and Marler, J.M. 1985. Isolation and Examination of Anaerobic Bacteria. Manual of Clinical Microbiology. 4: 413-433.
5. Gibbons, R.J., and MacDonald, J.B. 1960. Hemin and Vitamin K Compounds as Required Factors for the Cultivation of Certain Strains of *Bacteroides melanogenicus*. J. Bacteriol. 80:164-170.