



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

OxyPRAS Plus® Phenylethyl Alcohol (PEA)

Blood Agar Plate Product Insert

OxyPRAS Plus® PEA Blood Agar Plates are used for the isolation and cultivation of most obligate anaerobic bacteria. PEA inhibits facultative anaerobic bacteria such as those of the family Enterobacteriaceae. It is especially useful in the selective isolation of anaerobes from a variety of clinical and non-clinical materials.

Precautions:

OxyPRAS Plus® PEA Blood Agar plates are for In-Vitro Use only. OxyPRAS Plus® PEA Blood Agar 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:

Phenylethyl alcohol medium with blood and vitamin K1, is an enriched, selective medium useful for the isolation of anaerobes (1,2,3,4). Vitamin K1 enhances the growth of some *Bacteroides* sp. (6). PEA selectively reduces the growth of facultative anaerobic Gram negative bacteria, without effecting the growth of Gram positive microorganisms. In addition, the phenylethyl alcohol keeps *Proteus* sp. from swarming without inhibiting the growth of obligate anaerobic bacteria (5).

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)	Initial pH: 7.2 (+/- 0.2)
Enzymatic Digest of Casein	15.0 g
Enzymatic Digest of Soybean Meal	5.0 g
Sodium Chloride	5.0 g
Phenylethanol	2.5 g
Agar	15.0 g
Vitamin K1	1.0 mg
Sheep's 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 or pigmentation change of slower growing anaerobes may require a longer incubation time on this medium. 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:

OxyPRAS Plus® PEA Blood Agar plates will arrive at room temperature. The following storage option is listed below.

Storage: Store the product at 2°C to 8°C. Expiration date is **4 months** from the date of manufacture.

Refer to plate/label for actual expiration date.

Instructions for Use:

Before use, allow OxyPRAS Plus® PEA 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 bright red, 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. 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:

Organism	ATCC #	Results
<i>B. fragilis</i>	25285	growth in 2-3 days
<i>S. aureus</i>	25923	growth in 2-3 days/beta hemolysis
<i>P. mirabilis</i>	12453	growth in 2-3 days; swarming inhibited
<i>S. pyogenes</i>	19615	growth in 2-3 days

Guarantee:

We guarantee 30 days of shelf-life stored at 2°C to 8°C from the shipment date. If a longer shelf-life is needed, this should be arranged at the time your order is placed.

If OxyPRAS Plus® PEA 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

November 2024 Oxyrase, Inc. LAB.0065. v.013

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. Dowell, V., R. Jr., Hill, E.O., and Altemeier, W.A. 1964. Use of Phenethyl Alcohol in Media for Isolation of Anaerobic Bacteria. J. Bacteriol. 88: 1811.
6. Gibbons, R.J., and MacDonald, J.B. 1960. Hemin and Vitamin K Compounds as Required Factors for the Cultivation of Certain Strains of *Bacteroides melaninogenicus*. J. Bacteriol. 80:164-170.