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## AnaSelect® OxyPlate™ Product Insert

AnaSelect® OxyPlate™ patented design is used to enhance the recovery of anaerobes with selective media for isolating anaerobes from mixed cultures (slows growth of facultative microorganisms) and for subbing of isolated colonies.

AnaSelect® plates are made PRAS (Pre-Reduced Anaerobically Sterilized) with our unique OxyDish™ plate design, and the use of The Oxyrase® Enzyme System. The OxyDish™ is specially designed to create a seal that maintains anaerobiosis.

### 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** for each specific agar plate type is available on our website.

### Product Characteristics:

Schaedler medium, with blood, vitamin K<sub>1</sub>, and hemin, is an enriched, general purpose medium useful for the isolation of anaerobes (1,2,3). Vitamin K<sub>1</sub> and hemin provide nutrients for some strains of the pigmenting *Bacteriodes* group, and enhances the growth of some *Bacteroides* sp. and some gram-positive, non-spore forming anaerobes (4,6). 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*; Neomycin inhibits bacteria such as *S. aureus*. The Oxyrase® Enzyme System used in the OxyPlate™ provides a reduced medium **before** sterilization and maintains the medium in a reduce state for storage and during use. The Oxyrase® Enzyme System prevents the formation of undesirable oxidation products in these PRAS plates. The unique OxyDish™ design maintains anaerobiosis within the sealed plate (5), can be opened and closed several times, and will regenerate and maintain anaerobic conditions.

<u>Media Formulation</u> (per liter)	<u>Initial pH: 7.3 (+/- 0.2)</u>
Enzymatic Digest of Casein	2.5 g
Enzymatic Digest of Animal Tissue	2.5 g
Tryptic Soy Broth	10.0 g
Yeast Extract	5.0 g
Dextrose	5.0 g
Tris (hydroxymethyl) Amino Methane	3.0 g
L-Cysteine	0.3 g
Agar	13.5 g
Vitamin K <sub>1</sub>	1.0 mL
Sheep Blood	35.0 mL
Neomycin	2.3 mL
Sodium azide	< 0.1%
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 / Short Term Storage: Store the product at 2°C to 8°C. The expiration date of plates stored at this temperature is 9 weeks from the date of manufacture.

### Instructions for Use:

 (refer to OxyPlate™ product insert for information)

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

When streaking or inoculating the surface of an AnaSelect® plate microorganisms deposited in the ring impression may grow and spread under the ring when the dish is sealed. Thus, control of streaking technique is at the discretion of the end-user.

After inoculation is complete, invert plates and incubate in an **aerobic** environment. Do **not** stack traditional petri-dishes on top of AnaSelect® plates, as anaerobic seal damage may occur. Use an appropriate indicator (such as OxyBlue™) inside the plate 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>S. aureus</i>	25923	inhibited growth in 2-3 days; hemolysis
<i>P. mirabilis</i>	12453	inhibited growth in 2-3 days; no swarming
<i>E. coli</i>	25922	inhibited growth in 2-3 days

### Guarantee:

If AnaSelect® OxyPlates™ are contaminated, 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.

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