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## OxyPRAS Plus® Brucella Blood Agar Plate Product Insert

OxyPRAS Plus® Brucella Blood Agar Plates are used for the isolation and cultivation of anaerobic bacteria from a variety of clinical and non-clinical materials.

### Precautions:

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

### Product Performance:

Brucella 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 *Bacterioides* 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. Some beta hemolytic species may produce greenish reactions that could be mistaken for alpha hemolysis because of the relatively high content of carbohydrates in the medium.

The Oxyrase® Enzyme System used in OxyPRAS Plus® plates 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. Growth of anaerobes on OxyPRAS Plus® plates require anaerobic incubation in jars, bags, or chambers.

Media Formulation (per liter)	Initial pH: 7.3 (+/- 0.2)
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	1.0 g
Agar	15.0 g
Hemin	5.0 mg
Vitamin K <sub>1</sub>	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:

Plates allow for growth of strict and facultative anaerobes. 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® Brucella Blood Agar 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 (cold temperature - CT). The expiration date of plates stored at this temperature is 6 months from the date of manufacture.
2. **Short Term Storage:** Store the product at 20 C to 25 C (room temperature - RT). The expiration date of plates stored at this temperature is 4 months from the date of manufacture.

Refer to plate / label for actual expiration date.

### Instructions for Use:

Before use, allow OxyPRAS Plus® Brucella 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.

### User 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>C. perfringens</i>	13124	growth in 2-3 days; hemolysis
<i>F. nucleatum</i>	25586	growth in 2-3 days
<i>P. levii</i>	29147	growth in 2-3 days; brown/black pigment
<i>P. anaerobius</i>	27337	growth 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 OxyPRAS Plus® Brucella 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  
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