



OXYRASE®

Oxyrase, Inc.

P.O. Box 1345, Mansfield, OH 44901 ● Phone: (419) 589 - 8800

● Fax: (419) 589 - 9919 ● www.oxyrase.com

ANAEROBE KV LAKED BLOOD AGAR OXYPRAS WITH OXYRASE®

USE

This medium is used for the isolation and cultivation of anaerobic bacteria from a variety of clinical and non-clinical materials.

PRINCIPLE

TSA based medium with blood, vitamin K₁, and hemin is an enriched, selective medium useful for the isolation of some anaerobes (1,2,3). Vitamin K₁ and hemin provide nutrients for some strains of the pigmenting *Bacteriodes* group, and enhance the growth of some *Bacteriodes sp.* and some gram-positive non-spore forming anaerobes (4,5). Vancomycin and Kanamycin aid in the selective isolation of gram negative anaerobes, especially *Bacteriodes* (6). Kanamycin inhibits protein synthesis in susceptible microorganisms and Vancomycin inhibits gram-positive bacteria by interfering with cell wall synthesis (7). Laked blood improves pigmentation of the *Bacteriodes melaninogenicus* - *Bacteriodes asaccharolyticus* group (8). OxyPRAS provides a reduced medium before sterilization and maintains the medium in a reduce state for storage and during use (9). Growth of anaerobes on OxyPRAS plates requires anaerobic incubation in jars, bags, or chambers (9).

FORMULA PER LITER

Pancreatic Digest of Casein	15.0 g
Papaic Digest of Animal Tissue	5.0
Yeast Extract	5.0
Sodium Chloride	5.0
L-Cysteine	0.58
Agar	20.0
Hemin	5.0 mg
Vitamin K ₁	1.0
Vancomycin	10.5
Kanamycin	14.0
Laked Sheep Blood	50.0 ml
Deionized Water	1000.0
Maintained with Oxyrase®	
Initial pH 7.2 - 7.6	

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

STORAGE OF OXYPRAS

When you receive OxyPRAS plates, you have two storage options. Either, store at 2 - 8 C (cold temperature), or store at 20 - 25 C (room temperature). If you want extended shelf-life, then store the plates at cold temperature. Expiration date stored at 2 - 8 C is 6 months from the date of manufacturing. If you need space in the refrigerator and the extended shelf-life doesn't matter to you, then store the plates at room temperature. Expiration date stored at 20- 25 C is 3 months from the date of manufacturing. See Label for actual expiration date for each condition.

Store OxyPRAS plates in an inverted position and protect from light.

USE OF OXYPRAS

Before use, warm OxyPRAS to room temperature. Remove the plate from the protective pouch. Examine plates for contamination, expiration date, and evidence of deterioration such as dried agar or discoloration (muddy brown).

After inoculating, invert the OxyPRAS plate and incubate in an anaerobic bag, jar, or chamber in order to grow an anaerobic microorganism. Use appropriate indicator inside the bag, jar, or chamber to test for anaerobiosis.

LIMITATIONS OF PROCEDURE

Further testing is required to identify colonies. Biochemical and serological procedures may be found in appropriate references.

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 standards specified in Document M22-A3, Quality Assurance for Commercially Prepared Microbiological Culture Media. The following tests were performed.

RESULTS

<u>Organism</u>	<u>ATCC #</u>	<u>Results</u>
<i>B. fragilis</i>	25285	growth in 3-5 days
<i>C. perfringens</i>	13124	growth inhibited in 72 hrs
<i>E. coli</i>	25922	growth inhibited in 72 days
<i>S. aureus</i>	25923	growth inhibited in 72 days

User may test plates sampled from a particular lot by streaking them with stock cultures of *Bacteroides fragilis*, *Clostridium perfringens*, and *Escherichia coli*.

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