

## OXBILE (OXGALL) (7216)

### Intended Use

**Oxbile (Oxgall)** is dehydrated bile for use in preparing microbiological culture media.

### Product Summary and Explanation

Oxbile is manufactured from large quantities of fresh bile by rapid evaporation of the water content. Bile is composed of fatty acids, bile acids, inorganic salts, sulfates, bile pigments, cholesterol, mucin, lecithin, glycuronicacids, porphyrins, and urea. The use of Oxbile insures a regular supply of bile, and uniformity impossible to obtain with fresh materials.

Oxbile is dehydrated fresh bile and prepared specifically for differentiation of bile tolerant microorganisms. A 10% solution of dehydrated bile is equivalent to a fresh bile solution. It is usually incorporated into media e.g., Bile Esculin Agar and Brilliant Green Bile Agar, used for the determination of enteric pathogens. Oxbile is also found in Littman Agar, a selective fungal medium.

### Principles of the Procedure

Oxbile is used as a selective agent for the isolation of Gram-negative microorganisms, inhibiting Gram-positive bacteria. The major composition of Oxbile is taurocholic and glycocholic acids.

### Precautions

1. For Laboratory Use.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

### Quality Control Specifications

**Dehydrated Appearance:** Powder is homogeneous, free-flowing and straw to beige to tan.

**Prepared Appearance (2.0% wt/vol):** Prepared medium is clear and medium to very dark brownish amber.

### Chemical Composition:

|                   |           |
|-------------------|-----------|
| CAS #:            | 8008-63-7 |
| Loss on Drying:   | ≤6%       |
| pH (2% Solution): | 7.0 – 8.5 |
| Total Bile Acids: | ≥ 50.0%   |

**Growth Supporting Properties:**

|                                |              |
|--------------------------------|--------------|
| Brilliant Green Bile Broth 2%: | Satisfactory |
| MacConkey Agar W/O CV & Salt:  | Satisfactory |

### Test Procedure

Refer to appropriate references for specific procedures using Oxbile. For a complete discussion on enteric pathogens, refer to procedures outlined in the references.<sup>1,2</sup>

### Results

Refer to appropriate references for test results.

### Storage

Store sealed bottle containing Oxbile at 2 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

### **Expiration**

Refer to expiration date stamped on the container. Oxbile should be discarded if not free flowing, or if appearance has changed from original color. Expiry applies to Oxbile in its intact container when stored as directed.

### **Packaging**

|               |                 |              |              |
|---------------|-----------------|--------------|--------------|
| <b>Oxbile</b> | <b>Code No.</b> | <b>7216A</b> | <b>500 g</b> |
|               |                 | <b>7216B</b> | <b>2 kg</b>  |
|               |                 | <b>7216C</b> | <b>10 kg</b> |

### **References**

1. **Isenberg, H. D. (ed.)**. 1992. Clinical microbiology procedures handbook, vol. 1, American Society for Microbiology, Washington, D.C.
2. **Murray, P. R., E. J. Baron, M. A. Tenover, and R. H. Tenover (eds.)**. 1995. Manual of clinical microbiology, 6<sup>th</sup> ed. American Society for Microbiology, Washington, D.C.

### **Technical Information**

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)372-2006.