

# 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 in color.

**Prepared Appearance (2.0% wt/vol):** Prepared medium is clear, amber, with no or a light precipitate.

**pH (2% Solution at 25°C):** 7.0 - 8.5

**Expected Cultural Response:** Cultural response in Brilliant Green Bile Broth, 2% after incubation at 35°C for 18 - 24 hours incubation.

<b>Microorganism</b>	<b>Response</b>
<i>Escherichia coli</i> ATCC 25922	good to excellent growth with gas
<i>Staphylococcus aureus</i> ATCC 25923	marked to complete inhibition

## **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****Oxbile**

<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. Pfaller, F. C. 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 (410)780-5120 or fax us at (410)780-5470.