3% Ogawa Medium

Medium used for the isolation and cultivation of Mycobacterium spp.
*Equally use with MFDS (MB-O2216K).

• CONTENTS (100 mL)

Monopotaassium Phosphate   3.0 g
Sodium Glutamate   1.0 g
Final pH = 6.5 $\pm$ 0.2 at 25°C

• PROCEDURE

Suspend 4.0 G of powder in 100 mL of distilled or deionized water. Add 6 mL of Glycerol supplement (MB-G1821) and 6 mL of Malachite Green Solution 2% (MB-M0745). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Aseptically and 200 mL of Egg-Homogenate (MB-E1810). Mix well. Pour into tubes of 5 mL. Arrange tubes in a slanted position. Coagulate and inspissate at 85 - 90°C for 60 minutes.

• INTERPRETATION

3% Ogawa Medium is a medium used for the isolation and cultivation of Mycobacterium spp. Monopotassium phosphate and sodium glutamate are inorganic salts essential for the growth of Mycobacteria. Glycerol is the carbon and energy source. Malachite green serves as an selective agent to inhibit bacteria except Mycobacteria.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 $\pm$ 2°C up to 21 days under appropriate condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous
Color: white
Prepared medium
Appearance: opaque
Color: bluish green
Incubation conditions: 35 $\pm$ 2°C / up to 21 days under appropriate condition

Microorganism	ATCC	Inoculum CFU	Growth
Mycobacterium smegmatis	607	heavy	good
Escherichia coli	25922	10^3	partially inhibited

• **STORE**

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the. Store prepared medium at 2 - 8°C.

• **REFERENCES**

1.   Refer to the MFDS.

• **PACKAGE**

Cat. No : MB-O2216 3% Ogawa Medium	500 G