

**TECHNICAL SHEET**

<b>B601</b>		<b>MARINE OXIDATION FERMENTATION MEDIUM (MOF MEDIUM)</b>				
<b>Formula</b>						
<b>Ingredients :</b>		<b>gms/lit.</b>				
Casein enzymic hydrolysate		1.00				
Yeast extract		0.10				
Tris hydroxymethyl aminomethane		0.50				
Boric acid		0.011				
Ammonium sulphate		0.50				
Disodium phosphate		0.004				
Ammonium nitrate		0.0008				
Sodium chloride		9.70				
Magnesium chloride		4.40				
Sodium sulphate		1.60				
Calcium chloride		0.90				
Potassium chloride		0.275				
Sodium bicarbonate		0.08				
Potassium bromide		0.04				
Strontium chloride		0.017				
Sodium silicate		0.002				
Sodium fluoride		0.0012				
Phenol red		0.01				
Agar		3.00				
Final pH (at 25°C) : 8.0 ± 0.2						
<b>Directions :</b>						
Suspend 22.14 gms. in 1000ml distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 55-60°C and aseptically add sterile dextrose solution (or other carbohydrate of choice) to a final concentration of 1%.						
<b>Principle :</b>						
Casein enzymic hydrolysate and yeast extract supply the necessary nitrogenous nutrients including amino acids, vitamins etc. The mineral content of this medium is equivalent to one -half that of sea water. It contains a variety of salts found in seawater which not only make the medium suitable for marine bacteria but also buffers the medium. Phenol red is the pH indicator in the medium.						
<b>QC Tests – (I) Dehydrated Medium</b>						
Colour :		Pink				
Appearance :		Homogeneous Free Flowing powder				
<b>(II) Rehydrated medium</b>						
pH (post autoclaving/heating) :		8.0 ± 0.2				
Colour (post autoclaving/heating) :		Red				
Clarity (post autoclaving/heating) :		Clear				
<b>(III) Q.C. Test Microbiological</b>						
Cultural characteristics observed after 18 –24 hrs. at 35-37°C.						
MICROORGANISM (ATCC )		GROWTH	ACID	GAS	MOTILITY	
Vibrio cholerae (15748 )		Luxuriant	+	+	+	
Vibrio parahaemolyticus (11344)		Luxuriant	-	-	-	
<b>Precautions :</b>						
1. For Laboratory Use.						
2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.						
<b>Limitations :</b>						
1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.						
<b>Use :</b>						
For differentiation between oxidative and fermentative carbohydrate metabolism of marine bacteria.						
<b>Storage :</b>						
Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.						
<b>Packing :</b>						
500 gm bottle						
<b>Product profile:</b>		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B601</b>		22.14g/l	22.583L	8.0 ± 0.2	sterile dextrose solution (or other carbohydrate of choice)	121°C / 15 minutes

**Disclaimer:**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.