

# Product Data Sheet

VP MEDIUM Product No. GB-DCM-00028-1A

## **INTENDED USE**

For isolation of Vibrio parahaemolyticus.

#### **PRODUCT SUMMARY**

Vibrios 's are short, often curved, gram-negative rods that are motile by means of a single polar sheathed flagellum. Their growth isstimulated byNa+ ions, which is an absolute requirementfor mostspecies. Vibrio parahaemolyticus, a halophilic Vibrio, is responsible worldwide for outbreaks of gastroenteritis associated with eating many kinds of contaminated sea foods. It has been isolated from raw shellfish and other fish in the warm coastal and estuarine waters. VP Medium is prepared according to formula of De et al and is recommended for selective isolation of Vibrio species, especially V. parahaemolyticus from clinical specimens, foodstuffs, and environmental sample.

Ingredients	Gms / Ltr		
Peptic digest of animal tissue	10.000		
Yeast extract	5.000		
Sodium taurocholate	5.000		
Sodium thiosulphate	10.000		
Sodium chloride	20.000		
Sodium lauryl sulphate	0.200		
Sodium citrate	10.000		
Sucrose	20.000		
Bromo thymol blue	0.040		
Thymol blue	0.040		
Agar	20.000		

## **Product Specifications**

## PRINCIPLE

The medium contains peptic digest of animal tissue and yeast extract, which provide nitrogenous compounds, vitamin B complex and other essential growth nutrients. Sucrose is added as a fermentable sugar. Sodium citrate, sodium lauryl sulphate, sodium taurocholate and sodium thiosulphate as well as high alkalinity of the medium inhibit most of the contaminating organisms. Bromothymol blue and thymol blue are the pH indicators. The alkaline pH of the

**Goslar Biotech**, 255A Barking Road East Ham, London E6 1LB, United Kingdom Email: <u>info@goslarbiotech.com</u>, Website: www.goslarbiotech.com



medium and higher concentration of sodium chloride improves the recovery of Vibrio parahaemolyticus. Sucrose fermenting organisms like V. cholerae and V. alginolyticus produces yellow coloured colonies. Vibrio parahaemolyticus is a sucrose non-fermenting organism and produces blue-green colonies, as does V. vulnificus. Occasionally a few enteric sucrose nonfermenters may exhibit growth e.g. Proteus group.

# **INSTRUCTION FOR USE**

- Dissolve 100.28 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely, do not autoclave.
- Mix well and pour into sterile Petri plates

# **UALITY CONTROL SPECIFICATIONS**

Appearance of Powder : Cream to greenish yellow homogeneous free flowing powder. Appearance of prepared medium: Bluish coloured clear to slightly opalescent gel forms in Petri plates.

pH (a	t 25°	C) :
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 $8.6 \pm 0.2$ 

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Color of the colony	Incubation Temperature	Incubation Period
Enterococcus faecalis	29212	50-100	Poor	10-20%	-	35-37°C	18-24 Hours
Escherichia coli	25922	50-100	Inhibited	0%	-	35-37°C	18-24 Hours
Shigella flexneri	12022	50-100	Inhibited	0%	-	35-37°C	18-24 Hours
Vibrio cholerae	15748	50-100	Good- Luxuriant	>=50%	Yellow	35-37°C	18-24 Hours
Vibrio parahaemolyticus	17802	50-100	Good- Luxuriant	>=50%	Bluish- green	Yellow	Yellow
Vibrio vulnificus	27562	50-100	Good- Luxuriant	>=50%	Greenish yellow	Yellow	Yellow

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# STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration. **Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

#### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.