

TECHNICAL SHEET

LM013	MR-VP Broth (Glucose Phosphate Broth)		
Formula			
Ingredients:		gms/lit.	
Buffered Peptone		7.00	
Dextrose		5.00	
Dipotassium phosphate		5.00	
Directions: Label the ready to use bottle (LM013) bottle. Inoculate the sample and incubate at specified temperature and time.			
Principle:			
Dextrose serves as immediate carbon source. On growing the pure culture in the test medium after 18-24 hours the cultures are tested for MR and VP tests. MR test is performed by adding Methyl Red indicator. Methyl red is a pH indicator, which determines the pH when an organism utilizes glucose. On addition of one drop of methyl red indicator at the end of the period of incubation, if the color changes to distinct red, it indicates positive test. Whereas if the reagent turns yellow or yellowish orange, it indicates negative test. VP test detects ability of the organism to produce a neutral end product acetyl methyl carbinol (acetoin) from glucose utilization. This test is done by adding 1-2 drops of Barritt Reagent A (R029) and 1-2 drops of Barritt Reagent B. A positive test is indicated by pinkish red color within 2-5 minutes. No change in color indicates negative test.			
(I) QC Tests			
Color:		Sterile clear MR-VP Broth in glass bottle.	
Appearance:		Light yellow colored clear solution.	
(II) Sterility test		Passes release criteria	
(III) Q.C. Test Microbiological			
Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.			
MICROORGANISM (ATCC)	GROWTH	VP TEST	MR TEST
Escherichia coli 25922	Luxuriant	Negative reaction, yellow or no color change	Positive reaction, bright red color
Enterobacter aerogenes 13048	Luxuriant	Positive reaction, eosin pink/red color	Negative reaction, yellow or no color change
Klebsiella pneumoniae 23357	Luxuriant	Positive reaction, eosin pink/red color	Negative reaction, yellow or no color change

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Precautions :	1. In Vitro diagnostic use only. 2. Read the label before opening the container
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use:	For performance of Methyl Red and Voges Proskauer tests in differentiation of coli-aerogenes group.
Storage:	Store between 2-8 °C. Use before expiry date on the label.
Packing:	5ml in 25/50 Glass bottle.

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.

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