

**BIOMARK Laboratories-INDIA**

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**TECHNICAL SHEET**

<b>BW035</b>	<b>PEPTONE WATER</b>				
<b>Formula</b>					
<b>Ingredients :</b>		<b>gms/lit.</b>			
Peptic digest of animal tissue		20.00			
Sodium chloride		5.00			
Final pH (at 25°C) : 7.4 ± 0.2					
<b>Directions:</b>					
Suspend 25 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Add the test carbohydrate in desired quantity and dissolve completely. Dispense in tubes with or without inverted Durham's tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
<b>Principle :</b>					
Peptic digest of animal tissue provides essential nutrients. To study the fermentation ability of carbohydrates saccharose, rhamnose, salicin are generally added in 0.5% amount separately to the basal medium before or after sterilization. Sodium chloride maintains osmotic equilibrium. Peptone Water is recommended by BIS (1) for detection of Indole production by Escherichia coli. To detect indole production add 0.5 ml of Kovacs reagent to the tube and shake the tube gently. Appearance of a red colour indicates presence of indole.					
<b>QC Tests – (I) Dehydrated Medium</b>					
Colour :		Cream to light yellow			
Appearance :		Homogeneous Free Flowing powder			
<b>(II) Rehydrated medium</b>					
pH (post autoclaving/heating) :		7.4 ± 0.2			
Colour (post autoclaving/heating) :		Light amber to light yellow			
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		INDOLE	
Escherichia coli (25922)		Luxuriant		Positive reaction, red ring at the interface of the medium	
Salmonella typhimurium (14028)		Luxuriant		Negative reaction, no colour development / cloudy ring	
Staphylococcus aureus (25923)		Luxuriant		Negative reaction, no colour development / cloudy ring	
Enterobacter aerogenes (13048)		Luxuriant		Negative reaction, no colour development / cloudy ring	
<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>		Recommended by BIS as all-purpose growth medium and as the basis of carbohydrate fermentation media.			
<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)	
<b>BW035</b>		25g/l		20L	
		pH (25°C)		Supplement	
		7.2 ± 0.2		NIL	
		Sterilization		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 BIOMARK LABORATORIES publications.

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