

**TECHNICAL SHEET**

<b>PP023</b>	<b>R-2A Agar Plate</b>
<b>Formula</b>	
<b>Ingredients:</b>	<b>gms/lit.</b>
Casein acid hydrolysate	0.50
Yeast extract	0.50
Proteose peptone	0.50
Dextrose	0.50
Starch, soluble	0.50
Dipotassium phosphate	0.30
Magnesium sulphate	0.024
Sodium pyruvate	0.30
Agar	15.00
Final pH (at 25°C): 7.2 ± 0.2	
<b>Directions:</b>	
Label the ready to use plate (PP023). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.	
<b>Principle:</b>	
Yeast Extract provides a source of trace elements and vitamins. Proteose peptone and Casein acid hydrolysate provide nitrogen, vitamins, amino acids, carbon and minerals. Dextrose serves as a carbon source. Soluble Starch aids in the recovery of injured organisms by absorbing toxic metabolic byproducts. Sodium pyruvate increases the recovery of stressed cells. Potassium phosphate is used to balance the pH and provide phosphate. Magnesium Sulfate is a source of divalent cations and sulfate. Agar is the solidifying agent. R-2A Agar incubated for longer incubation periods allows these stressed organisms to grow well. Many bacteria from natural waters which contain limited nutrients at ambient temperature, grow best on the media with less nutrient levels. They grow better at the temperatures below the routine laboratory incubation temperatures of 35 to 37°C.	
<b>(I) QC Tests</b>	
pH:	7.2 ± 0.2
Color:	Light Yellow coloured medium
Appearance:	Sterile R-2A Agar in 90X15mm disposable plates.
<b>(II) Sterility test</b>	Passes release criteria
<b>(III) Q.C. Test Microbiological</b>	
Cultural characteristics observed by using standard ATCC cultures after an incubation for 24 - 72 hours at 35-37°C	
MICROORGANISM (ATCC)	GROWTH
Escherichia coli 25922	Good-luxuriant
S. serotype Enteritidis 13076	Good-luxuriant
Enterococcus faecalis 29212	Good-luxuriant
Candida albicans 10231	Good-luxuriant
S. serotype Typhi 6539	Good-luxuriant

Refer disclaimer Overleaf

<b>Precautions :</b>	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
<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 heterotrophic plate count of treated potable water, using longer incubation period.
<b>Storage:</b>	Store between 2-8°C. Use before expiry date on the label.
<b>Packing:</b>	10/20/50 disposable plates.

**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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