

TECHNICAL SHEET

PP017	Mueller Hinton Agar Plate w/ 2% NaCl
Formula	
Ingredients:	gms/lit.
Meat, infusion from#	300.00
Casein acid hydrolysate	17.50
Starch	1.50
Sodium Chloride	20.00
Agar	17.00
Final pH (at 25°C): 7.3± 0.2	
Directions:	
Label the ready to use plate (PP017). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.	
Principle:	
Mueller Hinton Agar contains beef extract, acid hydrolysate of casein, and soluble starch which are necessary for bacterial growth. Starch is a protective colloid against toxic materials present in the medium. Sodium chloride supplies essential electrolytes and enhances the growth of staphylococci. The gradient method is based on the concepts of both the dilution and diffusion tests, but differs from conventional disk methods by the use of a preformed and stable antibiotic gradient. When the gradient is applied to the inoculated agar plate, there is an immediate release of the antibiotic into the agar matrix. A continuous and exponential gradient of antibiotic concentration is created underneath the carrier, and after incubation a symmetrical inhibition ellipse centered along the carrier is seen. performance can be documented according to CLSI guidelines	
(I) QC Tests	
pH:	7.3 ± 0.2
Color:	Light Amber coloured medium
Appearance:	Sterile Mueller Hinton Agar w/ 2% NaCl in 90X15mm disposable plates.
(II) Sterility test	
Passes release criteria	
(III) Q.C. Test Microbiological	
Cultural characteristics observed after incubation at 35-37°C for 18-24 hours. performance can be documented according to CLSI guidelines	
MICROORGANISM (ATCC)	GROWTH
Staphylococcus aureus 29213	luxuriant
Staphylococcus aureus 43300	luxuriant

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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 the quantitative determination of susceptibility to methicillin and oxacillin when testing Staphylococci directly from colonies grown on nonselective media.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	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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