Technical Data



R2A AGAR

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APPLICATION	Agar Medium S or R2A Agar, is recommended for heterotrophic plate count of treated potable water using longer incubation periods, in accordance with the European Pharmacopeia.			
PRINCIPLE AND INTERPRETATION	Agar Medium S (R2A Agar) is used for the heterotrophic plate counts and for sub culturing isolates from potable waters using longer incubation periods as per European Pharmacopoeia ¹² It is recommended for pour plate, spread plate and membrane filter techniques. Plate count recommended for the bacterial examination of potable waters, gives an estimate of the aerobic and facultative anaerobic bacteria, which grow best at 35°C on a rich medium. However these organisms may represent a small number of total bacteria as other bacteria are either unable to grow under these conditions, or grow very slowly which cannot be detected in 48 hours. Many bacteria from natural waters, which contain limited nutrients at ambient temperature, grow best on the media with less nutrient levels. Moreover, they grow better at the temperatures below the routine laboratory incubation temperatures of 35 to 37°C. R-2 A Agar, is a low nutrient medium consisting of less proteose peptone, yeast extract and glucose as compared to Standard Methods Agar. This medium allows the growth of stressed, injured and chlorine tolerant bacteria present in treated waters due to the presence of pyruvate and starch. The number of colonies on a plate is reported as CFU (Colony Forming Units) per volume of sample.			
MEDIUM COMPOSITION*	Casein hydrolysate Yeast extract Proteose Peptone Starch Glucose Dipotassium hydrogen phosphate Magnesium sulphate anhydrous Sodium pyruvate Agar Final pH 7.0 ± 0.2 *Adjusted and/or suppl			
STORAGE	+2°/+25°C Protect from light, excessive heat, moisture and freezing			
	Growth Promotion Test: 10-100 viable microorganisms			
	Control strain	Incubation Conditions	Specifications	
	E. coli ATCC 8739	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%	
QUALITY CONTROL	P. aeruginosa ATCC 9027	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%	
	S. aureus ATCC 6538	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%	
	B. subtilis ATCC 6633	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%	
	C. albicans ATCC 10231	72-120 h at 22.5 ± 2.5°C	70%≤R%≤200%	

 $^{^1}$ European Pharmacopoeia current dition 2 Reasoner and Geldreich, 1985, Appl. Environ. Microbiol. 49:1

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	A. brasiliensis ATCC 16404	72-120 h at 22.5 ± 2.5 °C	70%≤R%≤200%
	Sterility control		No growth
	Appearance		Light yellow coloured, clear to slightly opalescent gel forms in plates plates
BARCODE on media plates	Data matrix code is con Digits 1→2 Digits 3→7 Digits 8→9 Digits 10→14 Digits 15→20	mposed of 20 digits: Media code Batch number Sub-batch number Progressive number Expiry Date (DDMMYY)	
GENERAL WARNING NOTES	Device must be handled according to asepsis precautions, of utilization of culture media is strictly referred to the type of analysis that must be done. Please refer to specific norms and procedures. Do not use if device is broken. Do not use if media shows accidental contamination signs. Do not utilize after expiry date. Let device reach room temperature before utilizing. Results interpretation must be done by qualified personnel, who must consider context of use. Disposal of waste must be carried out according to national and local regulations in force.		

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This product is available in:

> Sterile bottled media

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	962E/31PSC28.200	962E/31PSC28.200.10 (10 bottles/pack)	200ml in 250ml volume, PP28Screw Cap Bottle	1 year

> Non gamma irradiated media plates

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
Ø90mm	962E/10	962E/10.100 (100pcs/pack)	Filling volume: 30ml Packaging: Single Wrapping (SW)	8 months

Customized filling volumes and formulations are available upon request

To receive information please

contact info@cpcbiotech.it