

TECHNICAL SHEET

AS013	Urea Agar Slant	
Formula		
Ingredients:	gms/lit.	
Peptic digest of animal tissue	1.00	
Dextrose	1.00	
Sodium chloride	5.00	
Disodium phosphate	1.20	
Monopotassium phosphate	0.80	
Phenol red	0.012	
Agar	15.00	
Final pH (at 25°C): 6.8 ± 0.2		
Directions:		
Streak the test inoculum aseptically into the slant and incubate at appropriate conditions.		
Principle:		
Peptic digest of animal tissue provides carbon and nitrogen required for good growth of a wide variety of organisms. Dextrose is included as an energy source. Sodium Chloride maintains the osmotic balance of the medium. Potassium phosphate, Monobasic and Sodium Phosphate, Dibasic provide buffering capability. Urea provides a source of nitrogen for those organisms producing urease. This is indicated by a color change of the pH indicator, Phenol red, from yellow (pH 6.8) to red to pink – red (pH 8.1). Agar is the solidifying agent. Prolonged incubation may cause alkaline reaction in the medium. A medium without urea serves as negative control to rule out false positive results. Also, all urea test media rely on the alkalinity formation and so they are not specific for determining the absolute rate of urease activity. The utilization of proteins may raise the pH to alkalinity due to protein hydrolysis and excess of amino acids liberation results in false positive reaction.		
(I) QC Tests		
pH:	6.8 ± 0.2	
Color:	Yellowish orange coloured slant.	
Appearance:	Sterile Urea Agar in disposable slants.	
(II) Sterility test	Passes release criteria	
(III) Q.C. Test Microbiological		
Cultural characteristics observed after incubation at 35-37 °C for 18-24 hours.		
MICROORGANISM (ATCC)	GROWTH	UREASE
Escherichia coli 25922	luxuriant	Negative
Enterobacter aerogenes 13048	luxuriant	Negative
S. serotype typhimurium 14028	luxuriant	Negative
Proteus vulgaris 13315	luxuriant	Positive

Refer disclaimer Overleaf

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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 detection of urease production, particularly by <i>Proteus vulgaris</i> , Micrococci and paracolon organisms.
Storage:	Store between 2-8°C. Use before expiry date on the label.
Packing:	10/25 disposable slants.

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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