MM0111

Motility Indol Urea test medium

Use and description:
Semi-solid medium to detect microbiological motility together with urease activity and indol production.

Composition per liter:
Peptones.....16.000 g
Yeast extract.....3.000 g
D-glucose.....1.000 g
Disodium-H-PO_4.....2.300 g
Sodium-diH-PO_4..... 2.200 g
Sodium chloride..... 3.000 g
Phenol red..... 0.012 g
Agar ..... 2.000 g
Final pH of the ready to use medium: 6.9 ± 0.2

Medium preparation:
Add 27,5 grams of dehydrated culture medium to 1 liter of distilled water until evenly dispersed. Heat with repeated stirring until boil and dissolve completely. Autoclave for 15 min at 121°C. Cool down at 50°C. Add 50 ml sterile 40 % Urea solution. **Note**: Urea is heat sensitive. Do not sterilize the solution by autoclaving! Mix well and dispense into the final containers. To detect indol production, add 4-5 drops of Kovacs´ reagent to the cultures after incubation.

Quality specifications:
Dehydrated medium: homogeneous, light orange coloured, fine powder.
Ready to use medium: clear and orange semisolid agar , slightly opalescence

Microbiological response:

Organism	Result / motility	Indol/Urease
Escherichia coli ATCC 25922	Growth / +	- / +
Proteus vulgaris ATCC 13351	Growth / +	+ / +

Storage:
Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.