MM0121

Sensitivity Test Agar

Use and description:
Sensitivity Test Agar was formulated to satisfy both diagnostic and susceptibility requirements. It is inhibitor-free, includes different nucleotides, lysed or chocolated blood to keep thymidine concentration low and general purpose vitamin to improve the growth of several organisms. An essential requirement for antimicrobial susceptibility media is to keep thymidine and thymine levels sufficiently reduced to avoid of trimethoprim and sulphonamides interference.

Composition per liter:
Peptone……20.50 g
Agar……12.00 g
Sodium chloride……5.00 g
Uridine……...0.10 g
Thiamine hydrochloride ……0.01 g
Xanthine…… 0.01 g
Uracil……..0.01 g
Guanine hydrochloride…… 0.01 g
Adenine sulphate……0.01 g
Disodium citrate……1.00 g
Starch ……0.60 g

Final pH of the ready to use medium: 7.4 ± 0.2

Medium preparation:
Add 40.0 grams of dehydrated culture medium to 1 liter of distilled water allow to soak for 10 minutes, swirl to mix then sterilise by autoclaving for 15 min at 121°C. To prepare blood agar cool to 45 °C and add 7% lysed horse blood or 6% defibrinated blood according to preference. Mix well and pour plates.

Quality specification:
Dehydrated medium: homogeneous, whithish fine powder.
Ready to use medium: dependent upon the blood additive.

Microbiological response:

Organism	Result
Escherichia coli ATCC 25922	Positive, good growth
Pseudomonas aeruginosa ATCC 27853	Positive, good growth
Staphylococcus aureus ATCC 25923	Positive, good growth
Enterococcus faecalis ATCC 29212	Positive, good growth

Storage:

Dehydrated medium should be stored between 10 to 25^{o}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.

For references please turn appendix 1.
For supplement detailes please turn appendix 2.