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Product Information

D8184 Diagnostic sensitivity test agar (D.S.T. Agar)

Diagnostic Sensitivity Test Agar is used as an antibiotic sensitivity testing medium.

Composition:

Ingredients	Grams/Litre
Proteose Peptone	10.0
Veal Infusion Solids	10.0
Dextrose	2.0
Sodium Chloride	3.0
Disodium Phosphate	2.0
Sodium Acetate	1.0
Adenine Sulphate	0.01
Guanine Hydrochloride	0.01
Uracil	0.01
Xanthine	0.01
Aneurine	0.00002
Agar	15.0

Final pH 7.4 +/- 0.2 at 25°C

Store prepared media below 8°C, protected from direct light. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C.

Appearance: Yellow colored, homogeneous, free flowing powder.
Gelling: Firm
Color and Clarity: Medium amber colored, clear to slightly opalescent gel.

Directions:
Suspend 43 g of Diagnostic Sensitivity Test Agar in 1000 ml of distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. For blood agar cool the base to 50°C and add 7% sterile defibrinated horse blood aseptically. Mix well with gentle rotation and pour into sterile petri plates.

Principle and Interpretation:
Diagnostic Sensitivity Test Agar is recommended for diagnostic as well as testing the susceptibility of organisms to antibiotics and chemotherapeutic agents, such as Sulphonamides. Aneurine acts as a vitamin source. Addition of the bases adenine, guanine, uracil and xanthine improve the antibiotic testing performance of the medium.

Cultural characteristics after 18-24 hours at 35-37°C.

Organisms (ATCC)	Growth
Staphylococcus aureus (25923)	+++
Streptococcus pneumoniae (6303)	+++
Streptococcus pyrogenes (19615)	+++ (with the addition of blood)
Escherichia coli (25922)	+++
Micrococcus luteus (10240)	+++
Neisseria meningitidis (13090)	+++ (with the addition of blood)
Proteus mirabilis (25933)	+++
Salmonella typhi (6539)	+++
Shigella flexneri (12022)	+++
Enterococcus faecalis (29212)	+++

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