PRODUCT INFORMATION

D-Nase Test Agar

Cat. No. D04-101

DESCRIPTION

DNAse Test Agar (Deoxyribonuclease Activity) is used to differentiate microorganisms using correlation between coagulase positive and DNase activity. This differential medium is especially recommended for the identification of pathogenic staphylococci.

Casein peptone and soy peptone provide nitrogen, vitamins, minerals and amino acids essential for growth. Sodium chloride supplies essential electrolytes for transport and osmotic balance. Deoxyribonucleic acid enables the detection of DNase that depolymerize DNA. Bacteriological agar is the solidifying agent.

FORMULA (g/L)

Casein peptone	12.0 g	Yeast extract	12.0 g
Deoxyribonucleic acid	2.0 g	Sodium chloride	5.0 g
Bacteriological agar	11.0 g		

Final pH: 7.3 ± 0.2 at 25 ºC

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Suspend 42 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Sterilize in autoclave at 121 ºC for 15 minutes. Cool to 45-50 ºC, mix well and dispense into plates.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and beige.
2. Visually the prepared medium is amber, slightly opalescent, and without rests.
3. Expected cultural response after 18-24 hours at 35 ºC ± 2°C.

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ORGANISM	GROWTH	CHARACTERISTIC REACTION
Staphylococcus epidermidis ATCC 12228	Good Growth	DNase activity (-), no halo
Serratia marcencens ATCC 14756	Good Growth	DNase activity (+), with halo
Staphylococcus aureus ATCC 25923	Good Growth	DNase activity (+), with halo
Staphylococcus aureus ATCC 6538	Good Growth	DNase activity (+), with halo

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 25°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.

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