

D-NASE Test Agar

Cat No. PD022

For the differentiation of microorganisms using correlation between Coagulase Positive and DNase activity.

DNase Test agar is specially recommended for the identification of pathogenic Staphylococci and Serratia.

Casein and soy peptone provide nitrogen, vitamins, minerals and aminoacids for growth and deoxyribonucleic acid enables the detection of DNase that depolymerize DNA. Bacteriological agar is the solidifying agent.

Toluidine Blue O 0.1% Solution

TBO is a metachromatic dye which exhibits metachromes, a property whereby dye will not stain true because of complexes formed with substances which results in an absorption spectrum different from the original dye.

Test Purpose

- 1) Identification of potential pathogenic *S.aureus* (DNase +) from other Staphylococci spp (DNase -).
- 2) Differentiation and identification of non-pigmented Serratia (DNase +) from *Klebsiella-Enterobacter* (DNase -).

Procedure

Inoculate making heavy band streaks (2cms) of the test organism on the agar's surface and incubate 18-24 hours at $35 \pm 2^\circ \text{C}$. After growth, add a few drops of Toluidine Blue 0.1% solution. Toluidine blue forms colored complexes with polymerized DNA.

Results

DNase Positive – Appearance of a pink halo surrounding the inoculum Streaks

DNase Negative – No halo