

## PRODUCT INFORMATION

D-Nase & Methyl Green

Cat. No. D04-102

DNase Test Agar is used to detect deoxyribonuclease activity of bacteria and fungi, particularly for the identification of Staphylococci.

### DESCRIPTION

DNase Test Agar is used to detect deoxyribonuclease activity of bacteria and fungi, particularly for the identification of Staphylococci. Methyl Green combines with the polymerized DNA substrate to form a stable, green complex. The DNA is depolymerized by DNase-producing bacteria, which exhibit a clear zone against the green background around the colony. Tryptose is the nitrogenous source. Sodium Chloride maintains the osmotic balance and Agar is the gelifying agent.

### FORMULA (g/L)

Peptone mixture	23.1 g	Sodium chloride	5.0 g
Deoxyribonucleic acid	2.0 g	Agar	11.6 g
Magnesium sulfate heptahydrate	0.2 g	Methyl green	0.1 g

Final pH: 7.3 ± 0.2 at 25 °C

\*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 °C for 15 minutes. Cool to 45-50 °C, mix well and dispense into plates

### QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light green to light greenish beige.
2. Visually the prepared medium is green to blue green, with trace to slight haze.
3. Expected cultural response after 48 hours at 35 °C ± 2°C.

ORGANISM	GROWTH	CHARACTERISTIC REACTION
<i>Enterococcus aerogenes</i> ATCC 13048	Good Growth	DNase negative
<i>Serratia marcescens</i> ATCC 14756	Good Growth	DNase positive, clear zones
<i>Staphylococcus aureus</i> ATCC 25923	Good Growth	DNase positive, clear zones
<i>Streptococcus pyogenes</i> ATCC 19615	Good Growth	DNase positive, clear zones

## 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.