



Hy Laboratories Ltd.

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## Cat No. PD022- DNASE TEST AGAR

**Product Type:** 90 mm dish

### Principles and uses:

DNase Test Agar with Toluidine Blue (Deoxyribonuclease Activity) is used to differentiate microorganisms with 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. DNase Test Agar with Toluidine Blue contains a metachromatic dye to eliminate the necessity of reagent addition to the agar following incubation. Toluidine blue may be toxic to some gram-positive cocci and, therefore, should be used primarily with Enterobacteriaceae.

### Formula in g/L

Bacteriological agar 15 g/L  
Casein peptone 15 g/L  
Deoxyribonucleic acid 2 g/L  
Sodium chloride 5 g/L  
Soy peptone 5 g/L  
Toluidine blue 0,1 g/L

### Instructions for use:

For clinical diagnosis, the type of sample can be of any origin.

-Inoculate making a heavy band streak (2 cm in length) of the test organism on the surface of the plate. You can simultaneously place 4 to 5 different samples on the same plate.

-Incubate for 48 hours at  $35 \pm 2$  °C.

In the presence of toluidine blue:

DNase-positive: Appearance of a pink halo surrounding the inoculum streak. The rest of the plate remains blue.

DNase-negative: Absence of the pink halo surrounding the inoculum streak.

**Storage:** 2-8°C

**Appearance:** Blue, slightly opalescent

**Final pH:** 7.1 - 7.5 at 25°C

**Warning and Precautions** - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

### QC Performance Testing Results:

# TECHNICAL DATA



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TEST	ATCC	Incubation Temp.(°C)	Incubation Cond.	Reaction 1	
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 24 hours	Good	Pink zone around inoculum streak
<i>Serratia marcescens</i>	13880	33-37 °C	Aerobic, 24 hours	Good	Light pink zone around inoculum streak
<i>Staphylococcus epidermidis</i>	12228	33-37 °C	Aerobic, 24 hours	Good	W/o zone around inoculum streak
<i>Klebsiella pneumoniae</i>	13883	33-37 °C	Aerobic, 24 hours	Good	W/o zone around inoculum streak
<i>Enterobacter cloacae</i>	23355	33-37 °C	Aerobic, 24 hours	Good	W/o zone around inoculum streak