PP008	**DNase Test Agar w/ Toluidine blue Plate**
Formula	
Ingredients:	**gms/lit.**
Tryptone	15.00
Soya peptone	5.00
Deoxyribonucleic acid (DNA)	2.00
Sodium chloride	5.00
Toluidine blue	0.10
Agar	15.00
Final pH (at 25°C): 7.3 ± 0.2	
Directions:	
Label the ready to use plate (PP008). Either streak, inoculate or surface spread the test inoculum (50-100 CFU) aseptically on the plate.	
Principle:	
Tryptone and soya peptone provide nitrogen, amino acids and other nutrients. Deoxyribonucleic Acid enables the detection of DNase that depolymerizes DNA. Sodium Chloride provides essential ions while maintaining osmotic balance. Toluidine blue is a colorimetric indicator. Agar is a solidifying agent. Tryptose provide essential nutrients. DNase depolymerizes the DNA resulting in the formation of a clear zone around the microbial growth which is visualized by Toluidine blue added to the medium, itself, DNase activity results in the production of a bright pink reaction due to the metachromatic property of toluidine blue. Some strains of Staphylococci may be inhibited on DNase Test Agar due to toluidine blue.	
(I) QC Tests	
pH:	7.3 ± 0.2
Colour:	Blue coloured, clear to slightly opalescent gel .
Appearance:	Sterile DNase Test Agar w/ Toluidine blue in 85mm disposable plates.
(II)Sterility test	Passes release criteria
(III)Q.C. Test Microbiological	

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

MICROORGANISM (ATCC)	INOCULUM (CFU)	GROWTH	D-NASE ACTIVITY
Serratia marcescens 8100	50-100	Luxuriant	positive reaction, pink to red zone around the growth
Staphylococcus aureus 25923	50-100	Luxuriant	positive reaction, pink to red zone around the growth
Staphylococcus epidermidis 12228 (00036*)	50-100	Luxuriant	negative reaction
Streptococcus pyogenes19615	50-100	Luxuriant	positive reaction, pink to red zone around the growth

Refer disclaimer Overleaf

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Precautions :	1. In Vitro diagnostic use only.
	2. Read the label before opening the container
Limitations :	1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
Use:	Recommended for the detection of deoxyribonuclease activity of bacteria and fungi, and especially for identification of Staphylococci.
Storage:	Store between 10-30°C. Use before expiry date on the label.
Packing:	20/50 disposable plates.