

DNase TEST AGAR

Medium for research of deoxyribonuclease activity (DNase) in microorganisms.

TYPICAL FORMULA	(g/l)
Tryptose	20.0
Deoxyribonuceic Acid	2.0
Sodium Chloride	5.0
Agar	15.0
Final pH = 7.3 ± 0.2 at 25 °C.	

DIRECTIONS

Suspend 42.0 g of powder in 1 liter of distilled or deionized water. Heat to boiling until complete dissolution. Sterilize in autoclave at 121 °C for 15 minutes. Dispense in petri dishes.

DESCRIPTION

DNase TEST AGAR is a medium for differentiating microorganisms based on deoxyribonuclease activity.

TECHNIQUE

Inoculate the plates by spotting the organism on to the surface of the agar so that a thick plaque of growth is evident after incubation. Incubate at 36 ± 1 °C for 18-48 hours. Flood the plates with 1 N hydrochloric acid. A zone of clearing around the spot or streak of inoculum indicates DNase activity.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: pink.

Prepared medium

Appearance: very slightly to slightly opalescent.

Color: bright pink.

Incubation conditions: 36 ± 1 °C for 18-48 hours.

Microorganism	ATCC	Growth	DNase Test
<i>Staphylococcus aureus</i>	25923	good	+
<i>Staphylococcus epidermidis</i>	12228	good	-
<i>Streptococcus pyogenes</i>	19615	good	+

PERFORMANCE AND LIMITATIONS

The composition of the culture medium, the degree of aeration, pH, temperature and incubation period are important factors that influence DNase activity in the culturing and testing the micrococci.

STORAGE

The powder is very hygroscopic: store the powder at 10-30 °C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident.

Store prepared plates at 2-8 °C.








REFERENCES

1. Weckman, B.G., and B.W. Catlin (1957). J. Bacteriol. **73**; 747-753.
2. Disalvo, J.W. (1958). Med. Tech. Bull. U. S. Armed Forces Med. J. **9**: 191.

PRESENTATION

Product	REF	Σ
DNase TEST AGAR (11.9 l)	610205	500 g
DNase TEST AGAR (2.3 l)	620205	100 g

TABLE OF SYMBOLS

LOT Batch code	 Caution, consult accompanying documents	 Manufacturer	 Contains sufficient for <n> tests	IVD In Vitro Diagnostic Medical Device
REF Catalogue number	 Fragile, handle with care	 Use by	 Temperature limitation	 Keep away from heat source