



DNase TEST AGAR

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

TYPICAL FORMULA (g/l)

Tryptose.....	20.0
Deoxyribonucleic acid.....	2.0
Sodium Chloride.....	5.0
Agar.....	12.0
Final pH 7.3 ± 0.2	

DESCRIPTION

DNase AGAR is a medium for the detection of microbial deoxyribonuclease enzymes, particularly from staphylococci.

PRINCIPLE

When testing *Staphylococcus aureus* strains from clinical samples a correlation between DNase production and coagulase activity is shown. Both *S. aureus* and *S. epidermidis* produce extracellular DNase but *S. aureus* produces great quantities.

TECHNIQUE

Inoculate the plates by spotting the organism onto the surface of the agar so that a thick plaque of growth is evident after 18 hours incubation at 36±1 °C. Flood the plates with 1N HCl and allow them to stand on the bench (lids uppermost) for a few minutes. Look for zones of clearing around the colonies.

INTERPRETATION of RESULTS

If the organisms produce DNase enzymes, in sufficient quantity to hydrolyse the DNA, then clear zones are seen around the colonies.

STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING and PRECAUTIONS

For laboratory use.

The product doesn't contain dangerous substances according to directives 1999/45/CE and 2001/60/CE or for which exist recognized exposure limits.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

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.



Liofilchem s.r.l Bacteriology Products

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PRODUCT SPECIFICATIONS

NAME

DNase TEST AGAR

PRESENTATION

Ready plates (90 mm) containing 22+/-1 ml of medium.

STORAGE

10-25°C

PACKAGING

Code	Content	Packaging
10013	20 plates	<ul style="list-style-type: none">• 5 plates in thermically soldered film• 4 x 5 plates in cardboard boxes
10013*	100 plates	<ul style="list-style-type: none">• 5 plates in thermically soldered film• 2 x 5 plates in thermically soldered bag• 10 piles (2 x 5 ps) in box

pH OF THE MEDIUM

7.3 ± 0.2

USE

DNase AGAR is a medium for the detection of microbial deoxyribonuclease enzymes, particularly from staphylococci.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Bright pink medium, slightly opalescent.

SHELF LIFE








6 months

QUALITY CONTROL

1. Control of general characteristics, label and print
2. Sterility control
7 days at 25 ± 1 °C, in aerobiosis
7 days at 36 ± 1 °C, in aerobiosis
3. Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10⁴-10⁵ UFC/ml
Inoculum for specificity: ≤ 10⁴ UFC/ml
Incubation conditions: 18 h at 36 ± 1 °C, in aerobiosis

Microorganism		Growth	DNase Reaction
<i>Staphylococcus aureus</i>	ATCC 25923	Good	+
<i>Serratia marcescens</i>	ATCC 8100	Good	+
<i>Staphylococcus epidermidis</i>	ATCC 12228	Good	-

TABLE of SYMBOLS

Symbol	Meanings
	Catalogue number
	<i>In vitro</i> Diagnostic Medical Device
	Manufacturer
	Temperature limitation
	Use by
	Batch code
	Consult accompanying documents

CE

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