

TM 1274 – PAGANO LEVIN BASE

INTENDED USE

For isolation and differentiation of *Candida* species.

PRODUCT SUMMARY AND EXPLANATION

Pagano Levin Base prepared as per the formulation of Pagano, Levin and Trejo is used for the isolation and differentiation of *Candida* species. Differentiation is based on the ability of *Candida* species to reduce TTC (2, 3, 5-Triphenyl Tetrazolium Chloride). TTC is a redox indicator which is colourless in the oxidized form and when reduced forms an insoluble red triphenyl formazan compound which appears as red coloured colonies. Pagano Levin Base is superior to Sabouraud Dextrose Agar in detecting yeast species.

COMPOSITION

Ingredients	Gms / Ltr
Peptic digest of animal tissue	10.000
Yeast extract	1.000
Dextrose	40.000
Agar	15.000

PRINCIPLE

The medium consists of Peptic digest of animal tissue which provides carbon and nitrogen source required for good growth of *Candida* species. Yeast extract provides vitamins and cofactors. Dextrose is an energy source. TTC Solution 1%, added to the basal medium, facilitates the differentiation of yeast colonies based on the color change that occurs when *Candida* reduces TTC. Neomycin helps to inhibit growth of most of the accompanying bacteria.

INSTRUCTION FOR USE

- Dissolve 33 grams in 490 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 10 psi pressure (115°C) for 15 minutes. Cool to 50°C.
- Aseptically add 5 ml of TTC solution 1%.
- Mix well. Then add 5 ml of rehydrated contents of 1 vial of Neomycin Supplement. Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Cream to yellow homogeneous free flowing powder.
- Appearance of prepared medium** : Light amber coloured slightly opalescent gel forms in Petri plates.
- pH (at 25°C)** : 6.0 ± 0.2

INTERPRETATION

Cultural characteristics observed with added TTC solution and Neomycin Supplement after incubation.



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Colour of colony	Incubation Temperature	Incubation Period
<i>Candida albicans</i>	10231	50-100	Good	40-50%	Cream to light pink	35-37°C	18-48 Hours
<i>Candida krusei</i>	24408	50-100	Good	40-50%	White to cream spreading	35-37°C	18-48 Hours
<i>Candida tropicalis</i>	750	50-100	Good	40-50%	Red to maroon	35-37°C	18-48 Hours
<i>Escherichia coli</i>	25922	$\geq 10^3$	Inhibited	0%	-	35-37°C	18-48 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.













Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

- Pagano J., Levin J. V. and Trejo W., 1958, Antibiot. Annu. 1957-1958:137.
- MacFaddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore
- Samaranayake L.P., MacFarlane T.W. and Williamson M.I., 1987, J. Clin. Microbiol. 25:162.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative MedNet GmbH Bockstrasse 10, 48163 Münster, Germany	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**



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