



## PRODUCT SPECIFICATION SHEET

### Trichomonas Agar Base (DM427)

#### Intended Use

Trichomonas Agar Base (DM427) is recommended for detection and isolation of *Trichomonas vaginalis* and *Candida albicans* from clinical specimen.

#### Product Summary and Explanation

Trichomonas Agar is formulated as per the formulation of Feinberg and Whittington for the detection and isolation of *Trichomonas vaginalis* and *Candida albicans* from clinical specimens.<sup>(1)</sup> Stenton reported that the success of an earlier version of the Trichomonas Medium was largely dependent on the choice and percentage of liver incorporated and it plays an important role in detection of *Trichomonas vaginalis*.<sup>(2)</sup> This medium was further modified by addition of small quantity of agar in the medium that creates a slightly reducing atmosphere which in turn favours better growth of *Trichomonas* species. Good growth of *Trichomonas* can be obtained from a mixed culture of *Trichomonas* and *Candida*; as *Candida* does not interfere with *Trichomonas*. The medium is equally suitable for the examination of urethral and vaginal swabs and urine specimens.

#### Principles of the Procedure

Trichomonas Agar Base contains liver digest which provides the nitrogenous substances. Dextrose acts as the carbon and energy source. The selective agents chloramphenicol and penicillin (MS065) are inhibitory to gram-positive and gram-negative bacteria but not for *Trichomonas* species. Sodium chloride maintains the osmotic equilibrium of the medium. Agar is added in small quantity in the medium which creates a slightly reducing atmosphere which in turn favours better growth of *Trichomonas* species.

#### Formula / Liter

Ingredients	Gms / Liter
Liver digest	25.00
Sodium chloride	6.50
Dextrose	5.00
Agar	1.00
Final pH: 6.4 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

#### Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

#### Directions

1. Suspend 37.5 grams of the medium in 920 ml of distilled water.
2. Heat to boiling, to dissolve the medium completely.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
4. Cool to 50°C.
5. Inactivate 80 ml of horse serum (MS084) adjust to pH 6.0 and add it to the medium for diagnostic work.
6. Add Trichomonas Selective Supplement II (MS065) to increase selectivity of the medium.

#### Quality Control Specifications

Dehydrated Appearance	Light yellow to light brown homogeneous free flowing powder
Prepared Medium	Dark amber coloured clear to slightly opalescent viscous solution in tubes
Reaction of 3.75% Solution	pH : 6.4 ± 0.2 at 25°C
Gel Strength	Not Applicable





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**Expected Cultural Response:** Cultural characteristics observed with added inactivated Horse Serum (MS084) and Trichomonas Selective Supplement II (MS065), after an incubation at 35-37°C for 3-5 days.

Sr. No.	Organisms	Results to be achieved
		Growth
1.	<i>Candida albicans</i> ATCC 10231	good-luxuriant
2.	<i>Trichomonas vaginalis</i> ATCC 30001	good-luxuriant
3.	<i>Escherichia coli</i> ATCC 25922	inhibited

The organisms listed are the minimum that should be used for quality control testing.

### Test Procedure

Refer to appropriate references for standard test procedures.

### Results

Refer to appropriate references and test procedures for interpretation of results.

### Storage

Store the sealed bottle containing the dehydrated medium at 10 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

### Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

### Limitations of the Procedure

1. Under anaerobic conditions massive inocula are required.
2. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
3. Consult appropriate texts for detailed information and recommended procedures.

### Packaging

**Product Name :** Trichomonas Agar Base

**Product Code :** DM427

**Available Pack sizes :** 500gm

### References

1. Feinberg J.G. and Whittington J.M., 1957, J. Clin. Path., 10:327.
2. Stenton P., 1957, J. Med. Lab. Technol., 14:228.

### Further Information

For further information please contact your local MICROMASTER Representative.





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**MICROMASTER LABORATORIES PRIVATE LIMITED**

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Unit 38/39, Kalpataru Industrial Estate,  
Off G.B. Road, Near 'R-Mall', Thane (W) - 400607. M.S. INDIA.

Ph: +91-22-25895505, 4760, 4681. Cell: 9320126789.

Email: [micromaster@micromasterlab.com](mailto:micromaster@micromasterlab.com)

[sales@micromasterlab.com](mailto:sales@micromasterlab.com)

Prepared By	Checked By	Approved By
Microbiologist	Head Quality Control	Head Quality Assurance

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