OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Thayer Martin Medium Base
(Thayer Martin Agar Base)

Principle

Thayer-Martin Medium is composed of special peptone, starch, sodium chloride and agar. Special peptone provides nitrogen, vitamins and amino acids. Starch absorbs any toxic metabolites that are produced during microbial growth, Sodium Chloride maintains osmotic balance. Agar is a solidifying agent. The medium can be fortified with the addition lysed blood or hemoglobin for support the bacterial growth and Supplement provides selectivity of the medium.

Use: For the selective isolation of Gonococci from clinical samples.

Contents*

Ingredients	Gram/Litre
Special peptone	23.000
Starch	1.000
Sodium Chloride	5.000
Agar	13.000
pH at 25°C	7.0 ±0.2

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 42.00 grams in 900 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C, and aseptically add 100 ml sterilized lysed blood and two vials of Vitamino growth supplement and V.C.N. supplement. Mix well and pour into sterile petri plates. Ensure complete solidification and inoculate test sample aseptically.

Or

If Hemoglobin is used, dissolve 42.0 grams of medium in in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Prepare 500 ml of 2% hemoglobin solution and sterilize separately by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix both and add two vials of Vitamino growth supplement and V.C.N. supplement

For selectivity the media is fortified with B or VX supplement, CNV antimicrobial solution or CNVT antimicrobial solution.

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Specimens types analyzed
Pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken
These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation
The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Beige colored free flowing, homogeneous powder**
Reaction of 4.20% solution	**7.0±0.2 at 25 ˚C**
pH	**6.80 - 7.20**
Gelling	**Firm comparable with 1.30% agar gel**
Color and clarity of ready medium	**Basal medium: Light amber, slightly opalescent gel. With lysed blood or 2% hemoglobin: cherry red, opaque gel.**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

Different Microbial Response: Prepare medium base as per label directions. Inoculate and incubate at 35 ± 2°C under 5-10% CO2 for 18-48 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Recovery	Color of colony
Neisseria gonorrhoeae	**19424**	**Luxuriant**	**≥ 60%**	**Whitish to colorless, mucoid**
Neisseria meningitidis	**13090**	**Luxuriant**	**≥ 60%**	**Bluish grey, mucoid**
Escherichia coli	**8739**	**Inhibited**	**--**	**--**

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. **Brown, J. H. (1919). The use of blood agar for the study of streptococci, NY Monograph No. 9. The Rockefeller Institute for Medical Research.**
2. **Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.**
3. **Martin, J. E., Jr., and J. S. Lewis. (1977). Anisomycin: improve anti-mycotic activity in modified Thayer-Martin Medium. Public Health Rep., 35:53.**
4. **Thayer, J. D., and A. Lester. (1971). Transgrow, a medium for transport and growth of Neisseria gonorrhoeae and Neisseria meningitidis. HSMHA Health Service Rep., 86:30.**
5. **Thayer, J. D., and J. E. Martin, Jr. (1966). Improved medium selective for cultivation of N. gonorrhoeae and N. meningitidis. Public Health Rep., 81:559.**

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