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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Martin Lewis Agar Base

Principle

Martin Lewis Agar base is Selective and enriched medium recommended for the isolation and cultivation of Neisseria species from clinical specimen. It is composed of tryptone, meat peptone, dipotassium hydrogen phosphate, potassium phosphate, corn starch, sodium chloride and agar. Tryptone and meat peptone provides nitrogenous and carbonaceous compounds and other essential growth nutrients for the growth of fastidious organisms. Phosphates buffer the medium. Sodium chloride maintains the osmotic balance. The media can be fortified with essential growth factors supplied predominantly by yeast extract or Vitamino Growth Supplement. X-factor needed for the growth of fastidious Haemophilus species is provided by hemoglobin. Selective supplement inhibits accompanying bacteria.

Use: For the isolation and cultivation of Neisseria species from clinical specimens.

Contents*

Ingredients	Gram/Litre
Tryptone	7.500
Meat Peptone	7.500
Dipotassium hydrogen phosphate	4.000
Potassium phosphate	1.000
Corn starch	1.000
Sodium chloride	5.000
Agar	12.000

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

Directions Dissolve 36.00 grams in 930 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 sterile 50 ml of 5% Hemoglobin solution, 1 vial of vitamin growth supplement and VCAT supplement. Mix well and pour into sterile petri plates. Avoiding air bubbles while pouring. Ensure complete solidification and inoculate test sample aseptically.

Specimens' types analyzed

Clinical samples: specimens containing mixed flora collected from vagina, rectum, urethra and throat

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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	**Light beige colored, free-flowing, homogeneous**
Gelling	**Firm comparable with 1.2% agar gel**
Color and clarity of ready medium	**Basal Medium: Yellow colored clear to slightly opalescent gel. After addition of hemoglobin and supplements: Chocolate colored opaque gel forms in Petri plates**
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
Cultural characteristics observed after an incubation at 34-38°C for 48 hours

Organism	ATCC	Growth	Recovery (%)
Neisseria gonorrhoeae	**19424**	**Luxurious**	**50 – 60 %**
Haemophilus influenzae	**19418**	**Luxurious**	**50 – 60 %**

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.

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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

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