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Brain Heart Infusion Agar
SKU: 700003193, 700003194, 700003195, 700003196
NCM0080

Intended Use
Brain Heart Infusion Agar is used for the cultivation of a wide variety of fastidious organisms and is not intended for use in the diagnosis of disease or other conditions in humans.

Description
A general purpose nutritious agar base. This medium was first used for the isolation of dental pathogens. With the addition of 7% defibrinated blood the medium will support the growth of a wide range of fastidious organisms, the phosphate buffer will help neutralize the acids produced from the utilization of glucose and thus maintain viability. The medium is not recommended for the determination of hemolytic reactions because of the glucose content.

Typical Formulation

Brain-Heart Infusion Solids	17.5 g/L
Tryptose	10.0 g/L
Glucose	2.0 g/L
Sodium Chloride	5.0 g/L
Disodium Phosphate	2.5 g/L
Agar	12.0 g/L

Final pH: 7.4 ± 0.2 at 25°C
Formula is adjusted and/or supplemented as required to meet performance specifications.

Precaution
Refer to SDS

Preparation
1. Suspend 49 grams of the medium in one liter of purified water.
1. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
2. Autoclave at 121°C for 15 minutes.

Quality Control Specifications
Dehydrated Appearance: Powder is homogeneous, free flowing, and beige.

Prepared Appearance: Prepared agar is clear with no precipitate and pale yellow to dark yellow.

Expected Cultural Response: Cultural response in Brain Heart Infusion Agar incubated at 37 ± 1°C under aerobic atmosphere and temperature and examined for growth at 21-48 hours.

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Microorganism	Approx. Inoculum (CFU)	Expected Results
Candida albicans ATCC® 10231	50-200	≥ 70% recovery
Enterococcus faecalis ATCC® 29212	$>10^4$	Growth
Escherichia coli ATCC® 25922	$>10^4$	Growth
Neisseria meningitidis ATCC® 13090	50-200	≥ 70% recovery
Staphylococcus aureus ATCC® 25923	50-200	≥ 70% recovery
Streptococcus pneumoniae ATCC® 6503	50-200	≥ 70% recovery
Streptococcus pyogenes ATCC® 12344	50-200	≥ 70% recovery

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

Results

Refer to appropriate references for test results.

Expiration

Refer to 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.

Limitation of the Procedure

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Storage

Store dehydrated culture media at 2 – 30°C away from direct sunlight. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

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