OXALIS Diagnostics Pvt. Ltd.

Technical Data

Dual Performance medium- Brain Heart Infusion Agar / Brain Heart Infusion Broth 20/40 mL

Recommended for rapid growth of Enterobacteria, Pseudomonas, Staphylococci and candida. Combination of solid (20mL) and liquid (40mL) media in single bottle.

Product Presentation:

Cat No.	Product description	Pack Size
22020012040	Dual Performance medium- Brain Heart Infusion Agar/ Brain Heart Infusion Broth 20/40 mL	1 Bottle.

Principle

BHI Medium is useful for cultivating a wide variety of microorganisms since it is a highly nutritive medium. It is also used to prepare the inocula for antimicrobial susceptibility testing. BHI Broth is a modification of the original formulation of Rosenow, where he added pieces of brain tissues to dextrose broth .BHI Broth is also the preferred medium for anaerobic bacteria, yeasts and molds . This medium is nutritious and well buffered to support the growth of wide variety of organisms. Proteose peptone, Beef Calf and Heart Calf infusion powder serve as sources of carbon, nitrogen, essential growth factors, amino acids and vitamins. Dextrose serves as a source of energy. Disodium phosphate helps in maintaining the buffering action of the medium whereas sodium chloride maintains the osmotic equilibrium of the medium

Brain Heart Infusion Agar

Composition

Ingredients	Grams / Liter
Beef Heart, Infusion from	250.00
Calf Brain, Infusion from	200.00
Proteose Peptone	10.00
Sodium Chloride	5.00
Dextrose	2.00
Disodium Phosphate	2.50
Agar	15.0

Brain Heart Infusion Broth

Composition

Ingredients	Grams / Liter
Calf Brain, Infusion from 200g	7.70
Beef Heart, Infusion from 250g	9.80
Proteose Peptone	10.00
Dextrose	2.00
Sodium Chloride	5.00
Disodium Phosphate	2.50
SPS	0.50

Final pH (at 25°C) 7.4±0.2

**Formula adjusted, standardized to suit performance parameters

FACTORY & OFFICE
Plot No. D 76 , Five Star MIDC Area, Kagal.
Dist. Kolhapur -416216 (M.S.)India.
Email : oxalispvtltd@outlook.com

Telefax : 0231-2305072
Phone : 0231-2305062
Mobile : +91 8805867810

OXALIS Diagnostics Pvt. Ltd.

Technical Data

Type of specimen

Clinical samples:- Blood.

Specimen Collection and Preparation

- ✓ No special preparation of the patient is required prior to sample collection by approved techniques.
- ✓ The specimen must be collected using sterile techniques to reduce the chance of contamination.
- ✓ Collect 1:10 ratio blood to broth, 4 mL of patient's blood for 40 mL BHI broth.
- ✓ Samples should be stored at 2°C-8°C if not tested immediately.
- ✓ Avoid using hemolyzed samples for testing.

Directions

- ✓ Label the ready to use Dual Performance medium- Brain Heart Infusion Agar/ Brain Heart Infusion Broth 20/40 mL.
- ✓ Remove the Aluminum foil cap. Disinfect the part of the rubber stopper which is now exposed.
- ✓ Draw patient's blood with the sterile or disposable needle and syringe as explained in specimen collection and disposable column.
- ✓ Transfer the blood sample immediately into the culture bottle by puncturing the rubber stopper with the needle and injecting the blood. Venting: Use sterile venting needle. Keep the bottle in an upright position preferably in a biological safety cabinet, place an alcohol swab over the rubber stopper and insert the venting needle with filter through it. Insertion and withdrawal of the needle should be done in a straight line.
- ✓ Incubate the bottle for 4-6 hours at 30 -35°C. For adsorption on solid surface. DO NOT SHAKE OR HOLD
- ✓ MORE THAN 15 SECONDS.
- ✓ Do Not vent the bottle for anaerobic cultures.
- ✓ Revert into an upright position and incubate for 18-24 hours at 30-35°C or longer
- ✓ if necessary
- ✓ Discard the needle and mix the contents by gently inverting the bottle 2-3 times.

Storage and Stability

- ✓ Store the ready to use Dual Performance medium- Brain Heart Infusion Agar/ Brain Heart Infusion Broth 20/40 mL in cool, dry place at 15°C-25°C away from direct light.
- ✓ Stability as per the expiry date mentioned on the label.

Quality Control

Appearance: In a sterile glass bottle combination of broth and one agar coated surface.

Colored of Agar Medium : Yellow coloured medium slightly opalescent gel.
Colored of Broth Medium : Amber coloured clear solution.
Appearance on Addition of Blood: Cherry red colored opaque solution without any blood clot.

Quantity of medium

20ml of Agar medium in glass bottle & 40ml of Broth medium in glass bottle

pH of Agar medium	pH of liquid medium
7.20- 7.60	7.20- 7.60

FACTORY & OFFICE
Plot No. D 76 , Five Star MIDC Area, Kagal.
Dist. Kolhapur -416216 (M.S.)India.
Email : oxalispvtltd@outlook.com

Telefax : 0231-2305072
Phone : 0231-2305062
Mobile : +91 8805867810

OXALIS Diagnostics Pvt. Ltd.

Technical Data

Cultural Response: Cultural response is observed after an incubation of 18-24 hours at 35°C-37°C and subculturing is carried out on Blood Agar.

Organisms	Type Culture	Growth on Agar Medium	Growth on Liquid Medium
Staphylococcus aureus	ATCC 25923	Good	Good
Streptococcus pyogenes	ATCC 19615	Good	Good
Candida albicans	ATCC *10231*	Good	Good
Haemophilus influenzae	ATCC *19418*	Good	Good
Pseudomonas aeruginosa	ATCC *27853*	Good	Good

Interpretation of Results

- ✓ Growth in the broth medium is indicated by the presence of turbidity. The bottles should be held for 7 days before reporting a negative blood culture.

Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures. User must be ensure safe disposal of used or unusable preparation of the products.

Reference

1. Atlas R. M., 1993, Handbook of Microbiological Media, 147-153, CRC Press, Boca Raton, FL.
2. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
3. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Yolken R. H., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
4.Diagnostic Microbiology , Baily & Scott, 9th Edition , Ellen jo Baron, etal. , Mosby 1994.

FACTORY & OFFICE
Plot No. D 76 , Five Star MIDC Area, Kagal.
Dist. Kolhapur -416216 (M.S.)India.
Email : oxalispvtltd@outlook.com

Telefax : 0231-2305072
Phone : 0231-2305062
Mobile : +91 8805867810