

Instaprep® Sabouraud Dextrose Agar

Intended Use

Instaprep® Sabouraud Dextrose Agar is used for cultivation of Yeasts, Moulds and Aciduric bacteria.

Summary

Cultivation and isolation of bacteria from pathological samples is many a times key to the identification of the underlying infections. Availability of microbiology testing and such procedures being available in routine laboratories has been limited due to the availability of dehydrated media which can be put to use only after substantial procedural and preparatory requirements. Instaprep® Sabouraud Dextrose Agar media are ready to use / ready to pour and fill this long felt need using a unique proprietary technology for routine microbiological testing.

Principle

Instaprep® Sabouraud Dextrose Agar ready to pour media are pre-sterilised media with standard proven formulations. The pouched media only need to be kept in boiling (100°C) water for ten minutes and they become ready to pour into sterile plates. A result of Tulip's long research the Instaprep® Sabouraud Dextrose Agar pouched media accord flexibility to the laboratories, thereby avoiding laborious preparatory steps and wastage. Instaprep® Sabouraud Dextrose Agar media also help laboratories to set up cultures on a random basis and not to be restricted to batching of cultures. As compared to pre-poured plates and dehydrated media, variability, contamination and wastage is also avoided.

Sabouraud Dextrose Agar is the standard agar for the cultivation of yeasts, moulds and aciduric bacteria; particularly those associated with skin infections. The poured medium is pale yellow coloured, slightly opalescent with a pH at 5.6 ± 0.2 .

Reagent

Instaprep® Sabouraud Dextrose Agar is a ready to pour sterilized pouched media for microbiological applications such as cultivation / isolation / selective growth /susceptibility tests.

Formula

| Ingredients | g/L |
|---|---------------|
| Dextrose | 40.0 |
| Mixture of Peptic Digest of Animal Tissue and Pancreatic Digest of Casein (1:1) | 10.0 |
| Agar | 15.0 |
| Final pH (at 25°C \pm 2°C) | 5.6 ± 0.2 |

*Adjusted to suit performance parameters

Additional Material Required

Water bath (250 mL beaker) at 100°C, vertical laminar air flow/ biosafety hood with Bunsen burner, forceps/ tongs, sterile petriplates (disposable/ glass), scissors, disinfectant (70% alcohol), absorbent sterile gauze, plastic/ glass/ wire rod for hanging pouches in water bath.

Procedure

1. Retrieve the required number of pouches from the carton.
2. Gently squeeze the gelled media to the bottom of the (Dip side) pouch, upto 'SQZ' mark.
3. Hang the pouches vertically using a hanging rod in a boiling water bath (at 100°C) with the 'DIP' side into the water and the water level upto the 'MAX' mark, for 10 minutes. Ensure that the heat source is not directly applied to the pouch. Retrieve the pouches after 10 minutes. In case rod hanger is not used for the pouches, remove the pouches using forceps/tongs. After retrieving the pouch, it should be dried diligently with gauze

and then disinfected. Any residual water from the water bath should not be allowed to drip on to the poured plate to avoid contamination.

4. Wipe dry the pouch corner at the 'CUT' mark and disinfect with 70% isopropyl alcohol (IPA).
5. Cut the pouch across the 'CUT' mark with disinfected scissors.
6. For 15 mL pouches, squeeze and pour out media aseptically into a sterile 90 mm (diameter) petriplate.
7. While pouring the media take care not to splash or form air bubbles.
8. Cover the petriplate and allow the poured media to set.
9. The poured plate is now ready to use.
10. The samples should be collected and processed aseptically before plating.

Quality Control

Appearance: 15 mL pouch with intact seal.

Appearance of the poured plate: Light amber coloured, slightly opalescent with firm gel forms in petriplates.

Cultural Response: Cultural characteristics observed after an incubation of 48-72 hours at 20°C-25°C.

Organisms (ATCC)

Candida albicans 3147 (10231)

Aspergillus brasiliensis WLRI 034(120) (16404)

Growth

Good

Good

Note: For good growth- Growth obtained on the test media should not differ by a factor greater than 2 from calculated value for a standardized inoculum. Inoculum cfu for good growth is 10-100.

Remarks

1. The temperature of water bath must be at 100°C to liquify the media. Cooler water baths will provide lumpy, uneven media.
2. Since all agar-based media solidify rapidly, it is important that minimum time be lost between retrieval of the pouch from boiling water bath and pouring aseptically into the sterile plates. This will produce evenly surfaced medium.
3. Good laboratory practices and hazard precautions must be observed at all times.
4. 15 mL media is sufficient for the standard 90 mm petriplates. In case smaller petriplates are being used more number of plates can be poured with a single pouch, proportionately.

Storage and Stability

1. Store the pouches at room temperature (15°C-25°C).
2. Stability of the unopened pouch is as per the expiry date mentioned on the label.

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.

Reference

1. Basic Laboratory Procedures in Clinical Bacteriology, J. Vandepitte, K. Engbaek, P. Piot, C.C. Heuck, W.H.O. Geneva, 1991.
2. Diagnostic Microbiology, Bailey & Scott, 9th Ed., Mosby 1994, Ellen Jo Baron, Lance R. Peterson.
3. Practical Medical Microbiology, Mackie & McCartney, Vol. 1, Microbial Infections, 13th Ed., Churchill Livingstone 1978, Edited J.P. Duguid, B.P. Marmion, R.H.A. Swain.
4. Practical Medical Microbiology, Mackie & McCartney, Vol. 2, 13th Ed., Churchill Livingstone 1989, Edited by J.G. Collee Duguid, A.G. Fraser, B.P. Marmion.
5. Handbook of Microbiological Media, Ronald M. Atlas, Lawrence C. Parks, 2nd Ed., 1997.
6. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:**Cat. No.**

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Product Description

Instaprep® Sabouraud Dextrose Agar

Pack Size

20 x 15 mL

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
