FUNGISEL AGAR WITH PHENOL RED

INSTRUCTION FOR USE

For professional use

Intended use: Fungisel Agar with phenol red is used for the selective isolation of fungi.

Ref.:	Type of medium:	Packaging:
1240	ready-to-use medium-plate	1x10 pcs (90 mm)
6103	ready-to-use medium-tube	1x50 pcs (7 ml)

1. Principle: enzymatic digest of soybean meal provides the nitrogen and vitamin source required for organism growth in Fungisel Agar. Dextrose is included as an energy source. Cycloheximide and chloramphenicol are used to restrict the growth of bacteria and commensal yeast. Phenol red is a pH indicator. Agar is the solidifying agent.

2. Formula/Liter:

Enzymatic digest of soybean meal	10.0 g
Dextrose	10.0 g
Cycloheximide	0.4 g
Chloramphenicol	0.05 g
Agar	15.5 g

Supplements/Liter:

Phenol red	0.05 g

3. pH: 6.9 ± 0.2 at 25°C.

4. Appearance:

Prepared Appearance: prepared medium is clear and orange.

5. Sample: all samples in which fungi are expected.

6. Test procedure: *the ready-to-use plates*: if the agar plate has been refrigerated, allow to warm to room temperature before inoculation. Streak the specimen for isolation onto the surface of the medium. If the specimen is cultured from a swab, roll the swab gently over a small area of the surface at the edge, then streak from this area with a loop. *The slanted medium in tube*: using a sterile loop, pick up three to four isolated colonies from a pure culture. Streak back and forth over the surface of the slant Incubate plates and tubes aerobically at 25-30°C for 48 - 168 hours. Plates incubate in an inverted position.

7. Results: after incubation observe growth of particular microorganism. Identification of the microorganism should be confirmed by biochemical test.

8. Quality control: perform quality control testing by inoculating a representative sample of plates with pure cultures of stable control organisms. Graso uses following strains for performing quality control. Please note that other strains can be used in accordance with applicable local, state and laboratory's standard Quality Control.

Microorganism:	Growth:	Appearance of colony:
Candida albicans ATCC 10231	good growth	cream to light yellow
Trichophyton mentagrophytes ATCC 9533	good growth	white mycelium, medium colour change from orange to pink or red
Stapylococcus aureus ATCC 25923	no growth	—

9. Precautions: due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium. Antimicrobial agents incorporated into a medium to inhibit bacteria may also inhibit certain pathogenic fungi. Primary isolation should include the use of both non-selective and selective media. Antibiotic-containing media should be incubated at room temperature. Additional procedures may be required for complete identification of pathogenic fungi and yeasts.

10. Disposal of waste: after use, all tubes and any other contaminated materials must be sterilized or disposed of in line with appropriate internal procedures and in accordance with local legislations. Plates and tubes can be destroyed by autoclaving at 121°C for at least 20 minutes.

11. Storage: tubes should be stored at 6-25°C in the dark used before the expiry date on the label. On receipt, store plates at 2-12°C away from direct sun light in an inverted position. Do not overload a refrigerator with excessive amounts of plates to avoid water condensation on the lids during storage. Plates must not come into direct contact with the inner walls of refrigerator, as the media may freeze, invalidating the tests. Prepared plates, stored in their original sleeve wrapping at 2-12°C until just prior to use, may be inoculated up to the expiration date and incubated for recommended incubation times. Plates from opened stacks of 10 plates should be used for two weeks when stored in a clean area at 2 to 12° C. Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or others signs of deterioration. Allow the medium to warm to the room temperature before inoculation.

All microbiological media containing dyes or light-sensitive components should be protected from light and stored in the dark.

Note that shelf life of the growth media changes after the addition of supplements. Complete media containing protein supplement tend to degrade faster than basal media alone.

12. Shelf life: plates: 3 months,
tubes: 1 year.

13. Required supplements not supplied together with medium base: not applicable.

14. References: available on request.

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