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| Section: Mycology Bench Manual | Subject Title: Media / Reagents Mycosel Agar | |
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MEDIA / REAGENTS

7. MYCOSEL AGAR

Purpose

- a) to isolate pathogenic fungi (especially dermatophytes) from contaminated specimens (it inhibits bacteria and most saprophytic fungi).
- b) to determine Cycloheximide resistance of fresh isolates as a screening test for pathogenic fungi.

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|-------------------------|----------|
| Dehydrated Mycosel Agar | 36 g. |
| Distilled Water | 1000 ml. |

Mix thoroughly. Heat with frequent agitation until medium boils, not longer. Dispense 10 ml. amounts into 25-ml UGB bottles. Autoclave 15 min/ 118°C. Cool on a slant. Store at room temperature. Final pH 6.9 ± 0.2.

Formula per litre

| | |
|-------------------------------|---------|
| Papaic Digest of Soybean Meal | 10.0 g. |
| Dextrose | 10.0 g. |
| Agar | 15.5 g. |
| Cycloheximide | 0.4 g. |
| Chloramphenicol | 0.05 g. |

Note: This medium must not be incubated at 35°C since the antibiotics at the higher temperature inhibit pathogenic fungi.

Quality Control

| <u>Fungi</u> | <u>Incubation Temperature</u> | <u>Result</u> |
|----------------------------|-------------------------------|---------------|
| <i>Trichophyton rubrum</i> | 28°C | Good growth |
| <i>Aspergillus flavus</i> | 28°C | No growth |