

MM0197

Sabouraud Dextrose Agar

Use and description:

The medium recommended for the cultivation and differentiation of non-pathogenic and pathogenic fungi other bacteria inhibited by the acid pH. Sabouraud dextrose agar can be made more selective by the addition of antibiotics such as cycloheximide, streptomycin, chloramphenicol, novobiocin and gentamicin. The combination of cycloheximide and chloramphenicol inhibits many pathogenic fungi.

Composition per liter:

Peptone.....10.0 g
Glucose.....37.7 g
Agar.....14.3 g

Final pH of the ready to use medium: 5.6 ± 0.2

Medium preparation:

Add 62.0 grams of dehydrated culture medium to 1 liter of distilled water. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

Quality specifications:

Dehydrated medium: homogeneous, light beige, fine powder.

Ready to use medium: light amber colored, slightly opalescent agar.

Microbiological Response:

Organism	Result	Colony colour
<i>Escherichia coli</i> ATCC 25922	Negative	-
<i>Staphylococcus aureus</i> ATCC 25923	Negative	-
<i>Aspergillus niger</i> ATCC 16404	Growth	Woolly and black mycelium
<i>Candida albicans</i> ATCC 10231	Growth	Off-white creamy

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or the color has changed from the original.