

## TM 858 - SOIL EXTRACT AGAR

### INTENDED USE

For isolation of soil microorganisms.

### PRODUCT SUMMARY AND EXPLANATION

Soil Extract Agar is a medium used for isolating soil microorganisms. The fertility of soil depends not only on the chemical composition but also on the qualitative and quantitative nature of microorganisms inhabiting it. Microorganisms inhabiting soil can be classified into bacteria, actinomycetes, fungi, algae and protozoa.

### COMPOSITION

Ingredients	Gms / Ltr
Glucose	1.000
Dipotassium phosphate	0.500
Soil extract	17.750
Agar	15.000

### PRINCIPLE

Soil is a natural medium for many organisms as they provide a perennial source of organic matter and other sources of carbon, nitrogen, minerals and vitamins required for their growth.

Soil extract provides all the essential nutrients required for growth of soil microorganisms. Glucose serves as readily metabolizable carbon source whereas dipotassium phosphate buffers the medium.

### INSTRUCTION FOR USE

- Dissolve 34.25 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Mix well and pour into sterile Petri plates.

### QUALITY CONTROL SPECIFICATIONS

<b>Appearance of Powder</b>	: Cream to yellow homogeneous free flowing powder.
<b>Appearance of prepared medium</b>	: Light amber coloured clear to slightly opalescent gel forms in Petri plates.
<b>pH (at 25°C)</b>	: 6.8±0.2

### INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Aspergillus brasiliensis</i>	16404	10-100	Luxuriant	≥70%	30°C	Upto 4 days



<i>Candida albicans</i>	10231	10-100	Luxuriant	>=70%	30°C	Upto 4 days
<i>Nocardia asteroides</i>	19247	50-100	Luxuriant	>=70%	30°C	Upto 4 days
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant	>=70%	30°C	Upto 4 days
<i>Saccharomyces cerevisiae</i>	9763	10-100	Luxuriant	>=70%	30°C	Upto 4 days

**PACKAGING:**

In pack size of 500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.







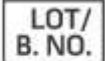


**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

1. Subba Rao N. S., 1977, Soil Microorganisms and Plant Growth, p-251., Oxford and IBH Publishing Co., New Delhi.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

\*For Lab Use Only  
Revision: 08 Nov., 2019