TM 1220 – LIMABEAN AGAR

INTENDED USE
For cultivation of phytopathological and other fungi

PRODUCT SUMMARY AND EXPLANATION
Plant diseases are caused by a variety of living organisms (called pathogens) such as fungi, bacteria, viruses, nematodes, phytoplasmas, protozoa, and parasitic plants, and by non-living agents such as air pollutants, nutrient imbalances, and various environmental factors. Fungi are responsible for many diseases of plants, causing large losses in crop production. They are responsible for contaminating harvested crops with mycotoxins dangerous for public health. As such crops are the target of large-scale fungicide use, with the corresponding environmental and health hazards. Limabean Agar is recommended for cultivation of such phytopathological and other fungi.

COMPOSITION

Ingredients	Gms / Ltr
Lima beans, infusion (from 62.5 g)	8.000
Agar	15.000

PRINCIPLE
This medium is composed of an infusion of dry lima beans and agar. Limabean infusion provides all essential growth nutrients for fungi. The pH of the medium is 5.6, which enables luxuriant fungal growth.

INSTRUCTION FOR USE
- Dissolve 23.0 grams in 1000 ml purified/distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS
Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium : Yellow coloured opalescent gel forms in Petri plates and may have slight precipitate.

pH (at 25°C) : 5.6 ± 0.2

INTERPRETATION
Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Aspergillus brasiliensis	16404	10-100	Luxuriant	>=70%	28-32°C	40-48 Hours

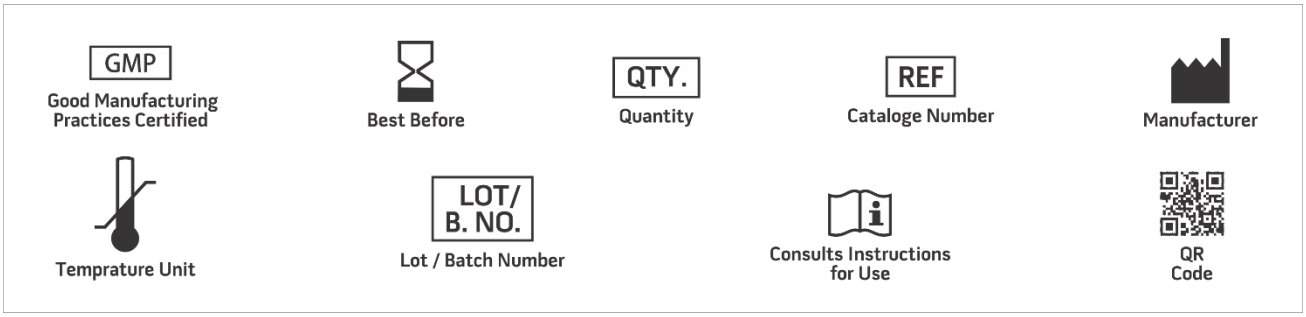
Candida albicans	10231	10-100	Luxuriant	>=70%	28-32°C	40-48 Hours
Saccharomyces cerevisiae	9763	10-100	Luxuriant	>=70%	28-32°C	40-48 Hours

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. Atlas R. M., 2004, Handbook of Microbiological Media, Lawrence C. Parks (Ed.), 3rd Edition, CRC Press.
2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.



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