

Technical Information

Limabeen Agar

Product Code: DM 1736

Application: - Limabeen Agar is used for cultivation of phytopathological and other fungi.

Composition**

Ingredients	Gms / Litre
Lima beans, infusion (from 62.5g)	8.000
Agar	15.000
Final pH (at 25°C)	5.6±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Limabeen Agar is used for cultivation of such phytopathological and other fungi (1). 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.

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

Methodology

Suspend 23 grams of dehydrated media in 1000 ml distilled water. Mix thoroughly & heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Shake well before pour into sterile Petri plates.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity

Yellow coloured opalescent gel forms in Petri plates and may have slight precipitate.

Reaction

Reaction of 2.3% w/v aqueous solution at 25°C. pH : 5.6±0.2

pH Range

5.40-5.80

Cultural Response

DM 1736: Cultural characteristics observed after an incubation at 28-32°C for 40-48 hours.

Organism

**Aspergillus brasiliensis* ATCC 16404

Growth

luxuriant



Dehydrated Culture Media
Bases / Media Supplements

Candida albicans ATCC 10231 luxuriant

Saccharomyces cerevisiae ATCC 9763 luxuriant

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. Atlas R. M., 2004, Handbook of Microbiological Media, Lawrence C. Parks (Ed.), 3rd Edition, CRC Press.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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