PRODUCT CODE: 414956

Glucose Chloramphenicol Agar (Dehydrated Culture Media) for microbiology

Preparation

Suspend 40.2 grams of the medium in one litre of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Sterilize in autoclave at 121ºC for 15 minutes. Cool to 50ºC, mix well and dispense into plates. The prepared medium should be stored at 8-15°C.

The colour is light amber. The dehydrated medium should be homogeneous, free-flowing and beige in colour. If there are any physical changes, discard the medium

Uses

GLUCOSE CHLORAMPHENICOL AGAR is recommended by the International Dairy Federation (FIL-IDF) for the isolation and enumeration of yeasts and molds in milk and dairy products. This medium has been adopted by the DIN and ISO standards.

Yeast extract is the water-soluble portion of hydrolysed yeast and is a source of vitamins, particularly of the B-group, and other growth nutrients that stimulate yeast and mold development. Glucose is the fermentable carbohydrate as a carbon and energy source. Chloramphenicol is an antibiotic which aids in isolating pathogenic fungi from heavily contaminated material, as it inhibits most contaminating bacteria. It is a recommended antibiotic for use with media due to its heat stability and wide bacterial spectrum. Bacteriological agar is the solidifying agent.

Inoculate 0.1 ml of sample on medium surface. Incubate at 25 - 30°C and examine after 3 - 7 days. Report as number of colonies per gram of food.

Composition

See in Data Sheet (TDS).

Microbiological Test

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of 25-30ºC and observed after 3-7 days.

Microorganism	Growth
Escherichia coli ATCC 25922	Inhibited
Candida albicans ATCC 2091	Good
Staphylococcus aureus ATCC 25923	Inhibited
Aspergillus spp	Good
Lactobacillus casei ATCC 9595	Inhibited

Storage

Once opened keep powdered medium closed to avoid hydration.

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