Linden Grain Medium

M1916

Linden Grain Medium is designed for Media fill process simulation for beverage bottling, to test for low acid beverage spoiling bacteria.

Composition**

Ingredients	Gms / Litre
Glucose	20.000
Yeast extract	3.500
Casein peptone	2.000
Ammonium sulphate	2.000
Potassium dihydrogen phosphate	1.000
Magnesium sulphate	1.000
Final pH (at 25°C)	4.2±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 29.50 grams in 1000ml distilled water.Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Linden Grain Medium is for media fill process simulation for beverage bottling. Media fill is the performance of an aseptic manufacturing procedure using a sterile microbiological growth medium in place of the drug solution. It is a part of validation of an aseptic manufacturing(1).The medium allows the growth of the contaminant flora in the environment,inicated by turbid growth in the broth.

Casein peptone provides amino acids and other complex nitrogenous substances. Yeast extract supplies Vitamin B complex.Glucose is the carbohydrate source. Ammonium sulphate and magnesium sulphate acts as nitrogen source.Phosphate buffers the medium.

Quality Control

Appearance
Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium
Light amber coloured clear solution in tubes

Reaction
pH of 2.95% w/v aqueous solution at 25°C. pH : 4.2±0.2

pH
4.00-4.40

Cultural Response
Cultural characteristics was observed after an incubation at 20-25°C for 3-5 days.

Cultural Response

Organism	Growth
Cultural Response	
Candida albicans ATCC 10231	luxuriant
**Aspergillus brasiliensis ATCC 16404*	luxuriant
Saccharomyces cerevisiae ATCC 9763	luxuriant
Candida albicans ATCC 2091	luxuriant

Storage and Shelf Life

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

Reference

1.U.S. Department of Health and Human sevices Food & Drug Administration,Centre for drug evaluations and Research,April 2012

Revision : 1 / 2011