

TECHNICAL DATA SHEET

Linden Grain Medium

Principle

Linden Grain medium used for the media fill simulations for beverage bottling, to test for low acid beverage spoiling microorganisms. Medium is consisting of dextrose, yeast extract, peptone, ammonium sulphate, magnesium sulphate and potassium dihydrogen phosphate. Glucose provides carbon and energy source, yeast extract is a source of vitamin B complex, peptone provides nitrogen, amino acids and other trace nutrients. Ammonium sulphate is the sole source of nitrogen, magnesium sulphate provides ions that provide necessary trace elements and potassium dihydrogen phosphate as a buffering agent.

Use: For Media Fill process simulation for beverage bottling, to test for low acid beverage spoiling bacteria.

Contents*

Ingredients	Gram/Litre
Dextrose (Glucose)	20.000
Yeast Extract	3.500
Peptone	2.000
Ammonium sulphate	2.000
Magnesium sulphate	1.000
Potassium dihydrogen phosphate	1.000
pH at 25°C	4.2 ± 0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 29.50 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45°C for use.

Specimens types analyzed

Cosmetics and other commercial products etc.

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Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light beige colored, free-flowing, homogeneous
Reaction of 2.95% solution	4.20 ± 0.2 at 25°C
pH	4.00-4.40
Color and clarity of ready medium	Pale yellow, clear solution.
Growth Promotion properties	Best at ≤ 100 CFU at 25 ± 2°C for 3-5 days
Indicative properties	Optimum at ≤ 100 CFU at 25 ± 2°C for 3-5 days
Negative control	Performed using sterile distilled water

Different Microbial Response: Prepare media as per the label directions. Inoculate and incubate at 25±2°C for 3-5 days.

Organism	ATCC	Inoculum (CFU)	Growth
<i>Candida albicans</i>	10231	50-100	Luxuriant
<i>Saccharomyces cerevisiae</i>	9763	50-100	Luxuriant
<i>Aspergillus brasiliensis</i>	16404	50-100	Luxuriant

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). Handbook of media for environmental microbiology. 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

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