OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

PNY Medium

Principle

PNY medium is used for cultivation and isolation of *Lactobacillus* species from clinical samples, food, and food products. Media is composed of peptone, yeast extract, dextrose, phosphates, sodium chloride, sulphates and agar. Peptone and yeast extract provide the necessary nitrogen compounds, carbon, vitamins, and also some trace ingredients necessary for the growth of bacteria. Dextrose is a carbohydrate source. Phosphates are buffering agents. Sodium chloride maintains osmotic balance, and sulphate and salts provide essential nutrients. Agar is a solidifying agent.

Use: For cultivation and isolation of Lactobacillus species.

Contents*

Contents*

Ingredients	Gram/Litre
Peptone	5.000
Yeast Extract	5.000
Dextrose	5.000
Potassium dihydrogen phosphate	0.500
Dipotassium hydrogen phosphate	0.500
Magnesium sulphate	0.250
Manganese sulphate	0.010
Ferrous sulphate	0.010
Sodium chloride	0.010
Zinc sulphate	0.001
Copper sulphate	0.001
Cobalt sulphate	0.001
Agar	15.000
pH at 25˚C	6.0 ± 0.2

*** Formula adjusted for optimum performance and parameters**

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Directions: Dissolve 31.28 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and distribute aseptically in desired. Ensure complete solidification and inoculate test sample aseptically.

Specimens types analyzed

Food and food products, Clinical and non-clinical samples, etc.

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	**Beige colored free flowing, homogeneous powder**
Reaction of 3.13%% solution	**6.0 ± 0.2 at 25˚C**
pH	**5.80 – 6.20**
Gelling	**Firm comparable with 1.5% agar gel**
Color and clarity of ready medium	**Pale yellow colored opalescent gel**
Negative control	**Performed using sterile distilled water**

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Different Microbial Response: Cultural characteristics observed after incubation in the presence of 3-5% CO_2 at 35±2°C for 18-24 hours.

Organism	ATCC	Inoculum (CFU)	Growth
Lactobacillus casei	393	50-100	Luxuriant
Lactobacillus fermentum	9338	50-100	Luxuriant
Lactobacillus plantarum	8014	50-100	Luxuriant

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

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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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