

Technical Information

Drosophila Medium

Product Code: DM 1224

Application: - Drosophila Medium is recommended for the cultivation of Drosophila.

Composition**

Ingredients	Gms / Litre
Brewers yeast, dried	13.300
Corn Meal	133.000
V-8 vegetable juice	180.000
Methyl parahydroxybenzoate	0.093
Agar	13.300
Final pH (at 25°C)	6.0±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Drosophila medium is developed according to the formulation by Demerec for cultivation of Drosophila (1). *Drosophila melanogaster* is one of the best-researched insect in the world. It is extensively used by biologist for experimenting and researching heredity and genetics as its genome consists of only four pairs of chromosomes and the fly's life cycle is completed in eight to ten days only.

Dried Brewers yeast supplies vitamin and amino acid mixture for the growth of Drosophila. V-8 vegetable juice serves as a source of essential nutrients such as magnesium and potassium ions. Corn meal provides fructose as main carbohydrate source for cell proliferation. Low pH of the media will help to suppress bacterial growth and methyl parahydroxybenzoate serves as inhibitor for bacterial and fungal contaminants.

Methodology

Suspend 33.96 grams of dehydrated media powder in 100 ml distilled water. Mix thoroughly & heat to boiling with constant stirring for several minutes. Dispense the medium into containers as desired to obtain required depth.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.33% Agar gel.

Colour and Clarity

Yellowish brown coloured, opaque gel

Reaction

Reaction of 33.96% w/v aqueous solution at 25°C. pH : 6.0±0.2

pH Range

5.80-6.20



Dehydrated Culture Media
Bases / Media Supplements

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and use freshly prepared plates. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

Further Reading

1. Dermerec, 1950, Biology of Drosophila, New York: John Wiley and Sons, Inc.
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.

Disclaimer :

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