

Schneider's Drosophila Medium

Cell Culture Medium

Catalog No.: CM102

Description: Schneider's Drosophila Medium is a specially formulated cell culture medium designed for the in vitro cultivation of Drosophila (fruit fly) cells. It is widely used for the growth and maintenance of established insect cell lines, including commonly used Drosophila S2 cells, as well as for recombinant protein expression and functional studies in insect cell systems. This medium was originally developed to support the proliferation of Drosophila cells under ambient CO₂ conditions and is optimized to provide essential nutrients, amino acids, vitamins, inorganic salts, and energy sources required for insect cell metabolism. It does not require CO₂ supplementation when properly buffered.

Key Features:

- Optimized for Drosophila cell lines, including S2 cells
- Designed for growth at room temperature (25–28°C)
- Supports recombinant protein expression systems
- Balanced formulation of amino acids, vitamins, and salts
- Suitable for serum-supplemented or serum-free applications (depending on cell requirements)

Recommended Applications:

- Maintenance and expansion of Drosophila cell lines
- Recombinant protein production
- RNA interference (RNAi) studies
- Gene expression and functional genomics research
- Insect cell-based assay development

Product Type: Sterile filtered solution

Packing Size: 500 mL

pH: 6.4 ± 0.2

Osmolarity: 350 ± 15 mOsm/kg

Storage: Store at 2-8°C in a dark place.

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES

MACGENE Biotechnology ● Phone: (010)8205-7786 ● (010)6237-9789

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Composition of Schneider's Drosophila Medium

Inorganic Salts		mg/L
Calcium Chloride (CaCl ₂) (anhydrous)		599.00
Magnesium Sulfate (MgSO ₄) (anhydrous)		1810.00
Potassium Chloride (KCl)		1600.00
Potassium Phosphate monobasic (KH ₂ PO ₄)		450.00
Sodium Bicarbonate (NaHCO ₃)		400.00
Sodium Chloride (NaCl)		2100.00
Sodium Phosphate monohydrate		1168.00
Amino Acids		
L-Arginine hydrochloride		484.00
L-Aspartic acid		400.00
L-Cysteine hydrochloride-H ₂ O		87.00
L-Cystine 2HCl		131.00
L-Glutamic Acid		800.00
L-Glutamine		1800.00
Glycine		250.00
L-Histidine hydrochloride-H ₂ O		541.00
L-Isoleucine		150.00
L-Leucine		150.00
L-Lysine hydrochloride		1650.00
L-Methionine		800.00
L-Phenylalanine		150.00
L-Proline		1700.00
L-Serine		250.00
L-Threonine		350.00
L-Tryptophan		100.00
L-Tyrosine disodium salt dihydrate		622.00
L-Valine		300.00
beta-Alanine		500.00
Carbohydrates & Organic acids		
D-Glucose (Dextrose)		2000.00
Alpha-Ketoglutaric acid		200.00
Fumaric acid		100.00
Malic acid		100.00
Succinic acid		100.00
Trehalose		2000.00
Protein & Growth Factors		
Yeastolate		2000.00

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