

Schneider's Drosophila Powder Medium, revised

Cat. No. 47521

Product Description:

General Schneider's Drosophila medium¹ was originally developed for the culture of Drosophila cells (Drosophila S2 cells). It can also be used for the culture of other Dipteran cell lines.

Composition Without sodium bicarbonate and without calcium chloride

Storage Store powder dry at +2 °C – +8 °C. Keep container tightly closed, because powder is very hygroscopic. Signs of deterioration of the powdered medium are colour change, granulation/clumping, insolubility.
Liquid medium can be stored at +2 °C - +8 °C in the dark for ca. 6 weeks. Signs of deterioration of the liquid medium are pH change, irreversible precipitates, cloudy appearance and/or colour change

Solution procedure:

To prepare 1 l medium:

1. Fill ca. 800 ml distilled water in a 1-liter flask and add 24.45 g powder medium while stirring slowly. To facilitate dissolution, you may warm up the solution to 35 °C.
2. Dissolve 0.4 g sodium bicarbonate and 0.6 g calcium chloride in ca. 10 ml distilled water each and add it slowly to the medium while stirring.
3. Keep stirring when adjusting to pH of 6.5* with 1 N NaOH or 1 N HCl. Add antibiotics if necessary:
Penicillin G potassium salt (Cat. No. 31749) 50 U/ml
Streptomycin sulphate (Cat. No. 35500) 0.1 mg/ml
4. Fill up to 1 l with dest. water and sterilize by filtration.

*The original formulation has a pH of 6.65 – 6.75. At this pH range precipitation occurs.

¹ Schneider, I. (1964) J. Exp. Zool. 156, 91 – 104 and 166, J. Embryol. Exp. Morphol., 15, 271 - 279
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