

Grace's Insect Powder Medium

Cat. No. 47308

Product Description:

General Grace's basal medium, when properly supplemented, has been used to culture cells derived from a variety of insect species. The medium is primarily used as a basal medium for the growth and maintenance of cell lines derived from Leptidoptera (e.g. Sf9 and Sf21 (Spodoptera frugiperda)).

Composition Without sodium bicarbonate, but with calcium chloride and L-glutamine

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 45.95 g powder medium while stirring slowly. To facilitate dissolution, you may warm up the solution to 35 °C.
2. Dissolve 0.35 g sodium bicarbonate in ca. 10 ml distilled water 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.

¹Grace, T.D.C. (1962) Nature, 195, 788-789, ²Yunker, C.E. et al. (1967), Science 155, 1565-1566
Version 05/07