INSECT CELL CULTURE

For years, insect cell culture has been an important tool in molecular biology research, particularly for those individuals involved in Drosophila studies. This edition of the ICN Cell Biology Catalog highlights products specially for insect cell culture work.

Grace's Insect Medium

A popular medium formulated for Baculovirus Protein Expression systems involving insect cell types. Grace's medium was originally prepared to resemble the chemical composition of hemolymph from *Bombyx mori*. Prior to culturing, the media is normally supplemented with FBS, yeast extract, lactalbumin hydrosylate and BSA in varying combinations and concentrations. Grace's medium is often used to support the growth of dipteran and lepidopteran cell lines. Additionally, it can be used as a basal medium for serum-free insect cell culture. See also Hink's TNM-FH Medium.

Ref.: 1. Grace, T.D.C., Nature (London), 195:788 (1962).
2. Smith, G.E., et al., Mol. and Cell. Biol., 3:2156 (1983).
3. Hink, W.F., "Cell Lines from Invertebrates in Cell Culture", Cell Culture, Jakoby and Pastan, Eds, Academic Press (San Diego), pp. 457-460 (1979).

Liquid

	Catalog No.	Quantity
1X Grace's with L-glutamine; w/o insect hemolymph	2700054	500 ml

TC 100 Medium

Although originally developed to support the growth and development of *Spodoptera frugiperda*, TC 100 medium is ideal for a culturing a variety of other lepidopteran cell types.

Ref.: 1. Knudson and Buckley, Methods in Virology, Vol. 6 (1977).
2. Gardiner and Stockdale, J. Invertebrate Path., 25 (1975).

Powder

	Catalog No.	Quantity
1X TC 100 with L-glutamine; w/o sodium bicarbonate	2710122	1x10 liter

NOTE: The complete medium is prepared by adding 100 ml of FBS (cat. no. 2916749) to 900 ml of medium.

Mitsuhashi and Maramorosch Basal Medium (MMBM)

This medium was originally developed to culture leafhopper cells. However, it is well suited for supporting dipteran, homopteran and lepidopteran cells, particularly mosquito cell cultures.

Ref.: 1. Mitsuhashi, J. and Maramorosch, K., Contrib. Boyce Thompson Inst., 22:435 (1964).
2. Singh, K.R.P., Cun. Sci. (India), 36:506 (1967).

Liquid

	Catalog No.	Quantity
1X MMBM w/o L-glutamine	2700354	500 ml

NOTE: The complete medium is prepared by adding 200 ml FBS to 800 ml basal medium, then adjusting the pH to 6.5 with 1N NaOH.

Hink's TNM-FH Medium

Also known as Supplemental Grace's Medium, Hink's medium supports the growth of various insect cell types.

Ref.: 1. Hink, W.F., "Cell Lines from Invertebrates in Cell Culture", Cell Culture, Jakoby and Pastan, Eds, Academic Press (San Diego), pp. 457-460 (1979).

Liquid

	Catalog No.	Quantity
1X Hink's with L-glutamine, lactalbumin hydrosylate and yeastolate; w/o insect hemolymph	2710154	500 ml

Powder

	Catalog No.	Quantity
Hink's with L-glutamine, lactalbumin hydrosylate and yeastolate; w/o insect hemolymph	1127120 1127122	10x1 liter 1x10 liter

Serum-free Insect Medium (SFIM)

This completely serum-free, very low protein medium is specially formulated for insect cell cutlures requiring little to no protein. It supports the growth of Sf-9, Hi-5 and other insect cell types.

Liquid

	Catalog No.	Quantity
1X SFIM with L-glutamine	2720154	500 ml

Powder

	Catalog No.	Quantity
SFIM with glutamine	1127220 1127222	10x1 liter 1x10 liter

Serum-free Virus Production Medium (SFVM)

This completely serum-free medium is specially formulated for the production of viruses expressed in insect cells.

Liquid

	Catalog No.	Quantity
1X SFVM with L-glutamine	2730154	500 ml

Powder

	Catalog No.	Quantity
SFVM with glutamine	1127320 1127322	10x1 liter 1x10 liter