

Cell line designation: IPLB-LdEIta

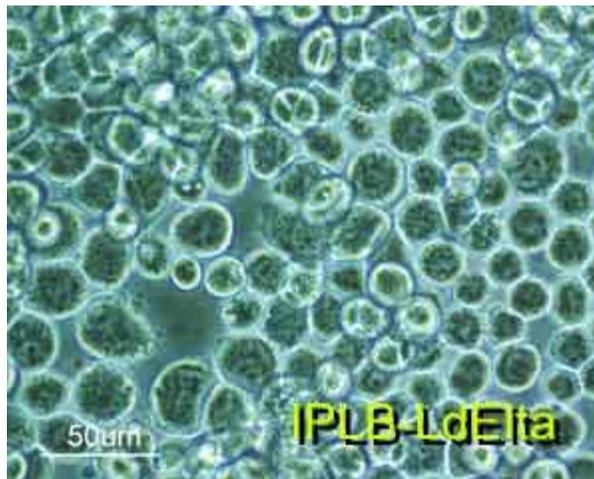
Tissue source: *Lymantria dispar* embryos

Date initiated: February 28, 1985

Morphology: Tightly attached, endotheloid cells

Culture medium: ExCell 420 (JRH Biosciences)

Or



Modified BML-TC/10 (=TC100 as distributed by Sigma and LTI/GIBCO), which contains:

Complete Medium

TC100	100 ml
Fetal Bovine Serum	10 ml
stock "P"	5.0 ml
vitamin stock	0.2 ml
trace minerals	0.1 ml
iron soln.	0.067 ml
Glycerol (50% in water)	0.32 ml
Glutamine (2 g/l)	2.0 ml

(see below for stock solutions)

Subculture procedure: A flask containing a 1 wk old culture is placed at 4°C for 15 to 20 min. After gentle rocking to dislodge loosely attached cells, the medium is replaced on the old culture with an equal volume of fresh. Cells are suspended by repeated flushing with medium from a pipet and 2 ml of the old culture is added to 2 ml fresh medium.

Virus susceptibility: Cells are susceptible (with complete occlusion body formation) to: *L. dispar* NPV, *Autographa californica* NPV and *Amsacta moorei* entomopox virus. No polyhedra were formed in response to *Orgyia pseudotsugata* NPV or *Heliothis zea* NPV.

Comments: The primary culture of this line was originally established in Goodwin's IPL-52B medium and grew as loosely attached round and spindle-shaped cells. During attempts to grow them in modified Grace's medium (TNM-FH), the strongly attached endothelial-like cells became the predominant cell type. Subsequently, the cells were grown in ExCell 400 (and now ExCell 420) and BML-TC/10 (=TC-100) modified with additional peptide-source components. Because there is a low population of loosely attached cells in this line, a continuous selection pressure is maintained for attached cells by replacing the medium prior to subculture.

Reference: Lynn, D. E., E. M. Dougherty, J. T. McClintock and M. Loeb. Development of cell lines from various tissues of Lepidoptera. In **Invertebrate and Fish Tissue Culture**. Y. Kuroda, E. Kurstak, and K. Maramorosch (eds.) Japan Scientific Societies Press, Tokyo/Springer-Verlag, Berlin, 1988.

MEDIA STOCK SOLUTIONS

Stock "P"

HyPep Dev 4601 (Quest International)	5 g
Primatone RL (Sheffield Products)	5 g
TC grade water	100 ml

Autoclave, store 4°C

Iron Soln.

FeSO ₄ .7H ₂ O	0.0823 g
Aspartic acid	0.0532 g
TC grade water	100 ml

Filter 0.2 um, store 4°C

Vitamin Stock

Thiamine-HCl	4.8 mg
Riboflavin	4.8 mg
Calcium Pantothenate	4.8 mg
Pyridoxine HCl	12. mg
Para-amino benzoic acid	9.6 mg
Niacin	4.8 mg
Biotin	4.8 mg
TC Grade water	60 ml

Filter 0.2 um, store 4°C

Trace Minerals

ZnCl ₂	4.0 mg
MnCl ₂ .4H ₂ O	2.0 mg
CuCl ₂ .2H ₂ O	19.5 mg
(NH ₄) Mo ₇ O ₂₄ .4H ₂ O	4.0 mg
CoCl ₂ .6H ₂ O	5.0 mg
TC Grade Water	100 ml

Filter 0.2 um, store 4°C