

BACKGROUND

The University of Virginia Tissue Culture Core was established in 1979 to provide no-cost media and reagents solely to the NIH supported Diabetes Center members. In 1994 the facility expanded to provide its services to all investigators in the Health Sciences Center. Along with this, a fee for services/reagents cost chargeback was initiated to defray expenses and allow the facility to offer tissue culture services at an extremely reasonable fee. In 1999 the facility became a participating core in the Cancer Center Support Grant.

Over the past several years the facility has consistently increased its user base and services offered including: primary tissue culture; validated custom and commercial tissue culture serum, media, and reagents; validated cell stocks for use by University of Virginia investigators; site for temporary use of tissue culture hoods, incubators and bench space for new faculty and faculty whose laboratory space is under renovation; mycoplasma testing of cell lines; bacterial agar plates; baculovirus titering, production and maintenance of baculoviruses; production of recombinant/secreted or nonsecreted protein; baculovirus amplification and storage of virus particles; providing cell stocks of established mammalian and insect cell lines, expansion of cell lines and creation of cell banks for investigators; seeding the cells upon request in desired volumes, densities and time; cell storage or back up in liquid nitrogen; technical support; consultation in developing protocols for cell growth capabilities and methods, and training to post-graduate students and faculty in tissue culture protocols and technology for no fee.

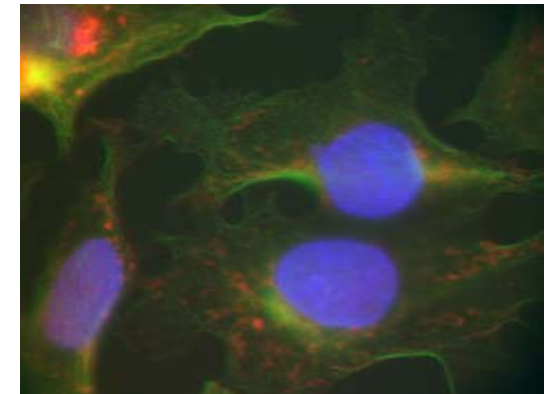


Tissue Culture Facility

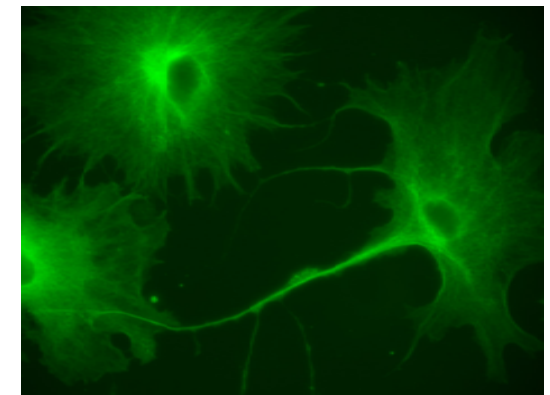
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TISSUE CULTURE FACILITY PRODUCTS & SERVICES

*Serving UVA Health System
Investigators Since 1979*



On the cover: The cells (top) are NT2 cells, neuronal precursor cells derived from human teratocarcinoma, these cells represent a committed neuronal precursor stage of differentiation. The NT2 precursor cells were induced by retinoic acid to differentiate in vitro into post-mitotic central nervous system (CNS) neurons (hNT neurons). In the course of the differentiation process, the NT2 precursor cells can be transfected, allowing for the study of the genes of interest in a neuronal precursor environment. The cells (bottom) are hNT neurons differentiated by the Tissue Culture Facility from the NT2 precursor cells.

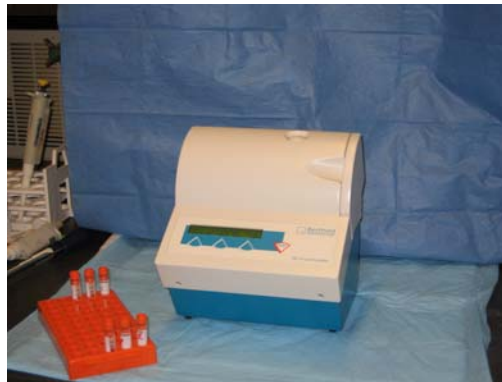


MEDIA & REAGENTS

REGULARLY STOCKED AT THE TISSUE CULTURE FACILITY:

Antibiotic/ Antimycotic
B-27 Supplement
DMEM high glucose
DMEM low glucose, +/- phenol red
DMEM/F12
DMEM/F12 w/HEPES, +/- phenol red
DPBS, 1x and 10x
Fetal Bovine Serum, certified
Fungizone
Geneticin (G418) 1 g and 5 g
Graces Insect Medium
Ham's F12
HEPES Buffer
Horse Serum
IMDM, 1 liter and 500 ml sizes
L-Glutamine
Lipofectamine 2000
McCoy's 5A Modified Medium
Medium 199
MEM, +/- L-Glutamine
MEM Non Essential Amino Acids
Newborn Calf Serum
Oligofectamine
Opti-MEM I - Reduced Serum Medium
Penicillin/Streptomycin
Platinum Pfx DNA Polymerase
RPMI 1640, +/- phenol red
Sodium Bicarbonate
Sodium Pyruvate
TOPO TA Cloning Kit
TrypLE Express
Trypsin 0.5%
Trypsin 0.05%

THE TISSUE CULTURE FACILITY WILL SPECIAL ORDER ANY INVITROGEN PRODUCT NOT REGULARLY STOCKED. SINCE THE TCF IS NOT SUBJECT TO SHIPPING FEES AND USUALLY CAN ENSURE NEXT DAY SHIPPING, YOU WILL SAVE TIME AND MONEY.



NEW MycoAlert System

The Tissue Culture Facility performs mycoplasma testing for your lab's cultured cells. The TCF offers one day turnaround on results, so you can better plan your experiments.

The new MycoAlert System detects mycoplasma in cell cultures in less than 20 minutes using the sensitive luminescent assay of ATP. This assay can be performed at every passage to ensure that the cultures remain uncontaminated.

SERVICES

The Tissue Culture Facility stocks several [competent cell lines](#) from both Invitrogen and Stratagene. The TCF has over 176 different mammalian and insect cell lines available to investigators for purchase as either frozen stock or growing cultures. The TCF also places orders for [cell lines from ATCC](#) on behalf of investigators. These cells can be thawed and cultured by the TCF upon request.

Other services include:

Baculovirus [rapid titers](#)

Transient and stable [transfections](#)

[Amplification](#) for both protein and high titers of Baculovirus

[Differentiation](#) of cell lines

Storage of cell lines in [liquid nitrogen](#)

[Mycoplasma](#) testing – see details on the new MycoAlert System

The Tissue Culture Facility [collaborates](#) with labs to develop technologies and protocols. TCF personnel have years of experience in performing cell culture, including developing new media and methods for cell growth and contamination control.

The TCF offers a [large selection](#) of low cost media, reagents, buffers, and supplies for cell culture, including lot matched and tested FBS at a discounted price and prepared LB plates with Ampicillin. The TCF contains [hood space](#) for overflow or labs experiencing severe contamination problems.
