



Nunc OptiCell® Cell Culture System



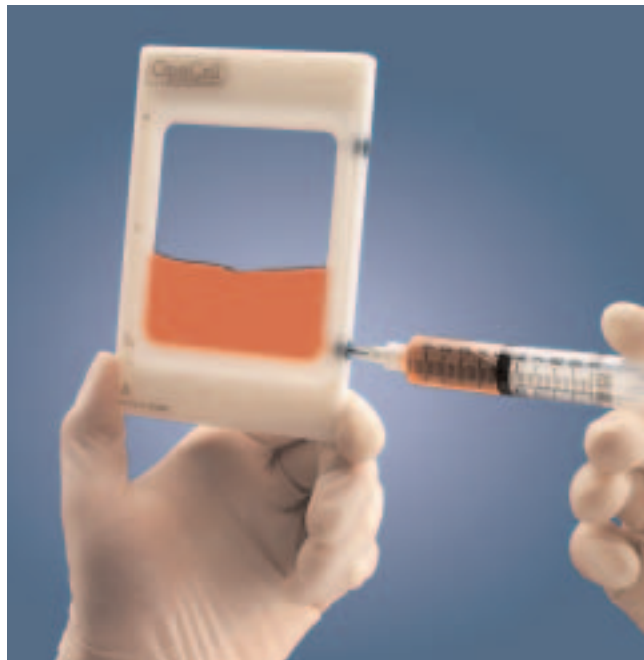
OptiCell® is a unique cell culture format for growing, monitoring, and transporting cells.



What is OptiCell®?

Two parallel gas-permeable, cell culture treated polystyrene membranes

- Each side has a growth area of 50 cm², total 100 cm²
- 75 µm thick membranes, 2 mm apart
- Thin profile design maximizes incubator space and reduces media consumption
- Standard microtiter plate-sized frame
- Recommended media/cell fill volume – 10 ml for OptiCell and 30 ml for OptiCell MAX
- Two resealing access ports provide closed growth environment with sterile fluid path - reduces risk of contamination
- Barcoded for easy tracking and automation handling



Accessories



OptiCell Rack

Holds 20 OptiCell or 10 OptiCell MAX Chambers. Multiple racks can be connected together.



OptiCell Tip

Stainless steel 18 gauge blunt tip, sterile and non-pyrogenic. Fits standard syringes. Single use only.



OptiCell Knife

Can be used to remove growth membranes from the frame for sectioning. Individually wrapped and sterile. May be autoclaved up to 3 times.



OptiMag

Flexible magnet adheres to OptiCell for easy magnetic separation within the chamber. Reusable.



OptiCell Mailer

Breathable, absorbent sleeves with cardboard mailers. FedEx® and UPS® reviewed; must be used with appropriate shipping envelope. Consult carrier for packing and shipping requirements on infectious or hazardous material.

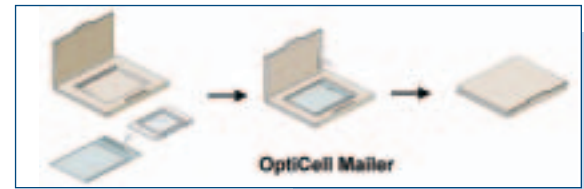
FedEx is a registered trademark of FedEx.

UPS is a registered trademark of United Parcel Service of America

Applications*

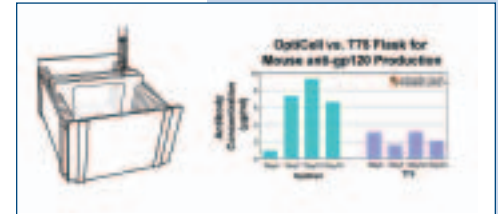
Transportation of Live Cells – OptiCell Mailer Kit

- Safe and convenient - incubator to mailer to incubator
- Access to O₂ and stable pH during shipping
- No disturbing or dehydrating of cells needed
- Less consumption of media



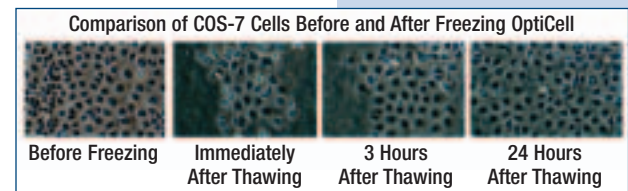
Hybridoma Antibody Production – OptiCell MAX Kit

- Completely self-sealed sterile system
- OptiCell lasts more than a month for continuous antibody production
- Allows harvesting of antibody 3 times a week for higher antibody concentration and yield
- Greatly reduces incubation space
- Easy to use - no need to spin down cells when collecting supernatants



Freezing & Thawing Cells

- Effective and convenient short-term storage of cells at -80°C and long-term storage at -152°C
- No trypsinization is needed
- Quick recovery and growth after thawing



Biomagnetic Cell Separation – OptiMag Kit

- Minimize cell manipulation during magnetic cell separation – separate and continue cell culture in the same device. No centrifugation needed
- Better proximity of magnet to cell populations for purer separation and higher yields
- Separation can be done with or without a laminar flow hood
- Compatible for use with Dynabead® antibodies and MACS® antibodies from Miltenyi



Cell Imaging & Staining

- Cultures can be fixed and stained *in situ*, can be stored for repeats
- Membrane can be sectioned for small scale staining
- Membrane with fixed cells can be stored for repeats
- Low background fluorescence; does not interfere with fluorescent assays
- Eliminates need for inverted lenses



Transfection

- No need to change the transfection reagents or protocols
- Easy to observe the transfection result under a fluorescent microscope when markers are used
- Simplify the process of isolating single cells



Dynabead and MACS are trademarks of Miltenyi Biotech.
*Application Notes available

NUNC™ OptiCell® and OptiMag Kits



OptiCell Starter Kit		OptiCell MAX Starter Kit		OptiMag Starter Kit		OptiCell Mailer Kit	
20 ea	OptiCell 1100	5 ea	OptiCell MAX 2100	5 ea	OptiCell 1100	5 ea	OptiCell 1100
1	OptiCell Rack	1	OptiCell Rack	1	OptiCell Rack	5	OptiCell Mailers
1	OptiCell Knife	50	OptiCell Insertion Tips	1	OptiMag Magnet	50	OptiCell Insertion Tips
50	OptiCell Insertion Tips	1	Manual and Hybridoma Ab Production Protocol	50	OptiCell Insertion Tips	1	Manual and OptiCell Shipping Protocol
2	NALGENE® Self Sealing Septum* Closure: polypropylene, autoclavable			1	Manual and OptiMag Cell Separation Protocol		
1	Manual and Instruction CD						

*NNI Cat. No. DS2168-0384

Ordering Information

NUNC Cat No.	Description
155330	OptiCell 1100 Starter Kit: 20 each of OptiCell 1100 , 1 rack, 1 knife, 50 tips, 2 caps, 1 optical shield, manual, 1 mini-CD
155331	OptiCell 1100, 20 each
155332	OptiCell 1100, 100 each
155333	OptiCell 1100, 500 each
155334	OptiCell MAX 2100 Starter Kit: 5 each of OptiCell MAX 2100, 1 rack, 50 tips, manual, Hybridoma Ab production protocol
155335	OptiCell MAX 2100, 20 each
155336	OptiCell MAX 2100, 100 each
155337	OptiMag Cell Separation Kit: 5 each of OptiCell 1100 , 1 magnet, 50 tips, 1 rack, manual, OptiMag cell separation protocol
155338	OptiMag Cell Separation Magnet, 1 each
155339	OptiCell Mailer Kit: 5 each of OptiCell 1100 , 50 tips, 5 OptiCell Mailers, manual, shipping protocol
155340	OptiCell Mailer, 10 each
155341	OptiCell Mailer, 25 each
155342	OptiCell Rack, for OptiCell 1100 and 2100, 1 each
155343	OptiCell Insertion Tips, 100 each
155344	OptiCell Knife, 3 each

*Cap used in Kits is NNI Cat. No. DS2168-0384



Nalge Nunc International • USA • Tel +1 585 586 8800 • nnitech@nalgennunc.com • www.nuncbrand.com
Nunc A/S • Denmark • Tel +45 4631 2000 • infocity@nunc.dk • www.nuncbrand.com
Nunc GmbH & Co. KG • Germany • Tel +49 611 18674-0 • nunc@nunc.de • www.nunc.de
Nalge Nunc International KK • Japan • Tel +81 3381 63355 • info@nalgennunc.co.jp • www.nalgennunc.co.jp



ISO 13485:2003
FM 31464

www.nuncbrand.com

N20135 0906
© 2006 Nalge Nunc International