

NEW



WORLD  
PRECISION  
INSTRUMENTS

# THERACYTE

## General Purpose Cell Encapsulation Device

### OPTIONS

SKU#	DETAILS	SIZE	STERILE
505395	Theracyte Implantable Cell Device	4.5 µL	Yes
505396	Theracyte Implantable Cell Device	20 µL	Yes
505397	Theracyte Implantable Cell Device	40 µL	Yes
505398	Theracyte Implantable Cell Device, 4 Port	40 µL	Yes

### ABOUT WPI

**World Precision Instruments (WPI)** is dedicated to the advancement of science and has been supporting the scientific community with innovative and unique solutions to further its research. WPI is a global leader in the design, manufacture and supply of animal physiology research equipment. Its products have 1000s of citations in notable peer-reviewed publications. WPI also has a broad range of instruments and supplies for research in regenerative medicine, developmental biology, genetics, oncology, toxicology, cardiovascular, neuroscience, etc.

### ISO9001:2015 CERTIFIED

Our US inspection process is hinged on our ISO9001:2015 certification to ensure you receive quality products.



ISO 9001: 2015  
Certified

### WORLD PRECISION INSTRUMENTS

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# GENERAL PURPOSE CELL ENCAPSULATION DEVICE

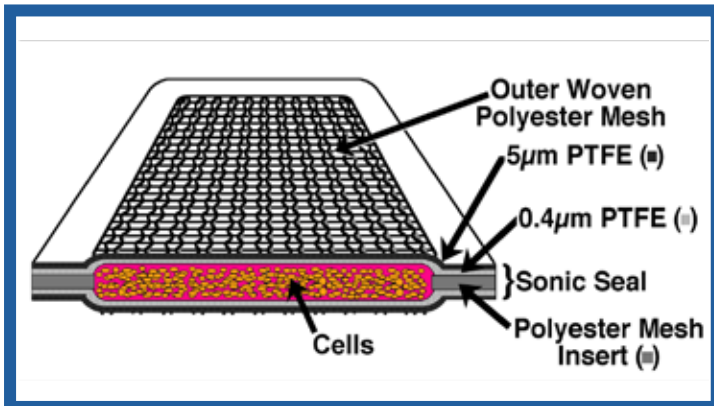
20 Years of published, peer-reviewed research

Theracyte is the only branded general purpose cell encapsulation device available worldwide to all researchers. It is the gold standard cell encapsulation device with 20 years of published peer reviewed research. With proven technique and process to support the development of new cell lines and protein research, Theracyte has developed an international reputation as a high quality brand.



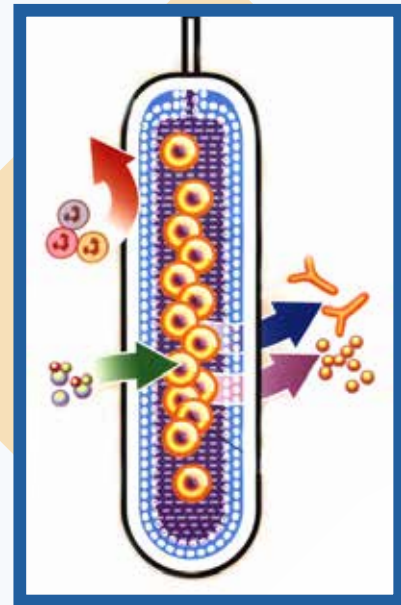
Theracyte cell encapsulation devices enable the development of cell-based therapeutic products for treating chronic and recurrent diseases including diabetes, infection control, protein deficiencies and immunological disorders.

The TheraCyte™ system for encapsulating and transplanting cells is a thin membrane-based polymeric chamber. It is fabricated from biocompatible membranes which protect allogeneic cells from rejection by the recipient and, when implanted subcutaneously, induce the development of blood capillaries close to the membranes. This vascularization feature provides a rich blood supply to nourish the tissues within the membranes, aids in the communication of implanted cells with the host and assures rapid uptake of therapeutic molecules.



## FEATURES

- Protects cells in the device from autoimmune destruction
- Inhibits cell-to-cell contact and associated cell signals
- High membrane permeability to oxygen, nutrients and secreted proteins



## BENEFITS

- No immune suppression needed to keep the transplanted cells safe
- Allows for the easy implantation of all cells in one procedure
- Drug/protein evaluations can be terminated by device removal
- The ability to execute a complete cell removal, by extracting the device, provides a significant safety benefit
- Allows cells to be nourished through the normal host blood supply

## APPLICATIONS

- |                                |                               |
|--------------------------------|-------------------------------|
| • Diabetes                     | • Cell Differentiation        |
| • Gene Therapy                 | • Cytokine Therapy            |
| • Therapeutic Protein Delivery | • Pain Management             |
| • Protein Discovery            | • Immunotherapy               |
| • Immunological Research       | • Cancer Therapy              |
| • Antibody Delivery            | • In Vivo Diagnostics         |
| • Cell Transplantation         | • Continuous protein delivery |

The Theracyte device delivers high molecular proteins of at least 900,000 Daltons, and it can be used for any same species cells research, without immune suppression or xenographs with immune suppression. It is perfect for the delivery of proteins that are unstable and difficult to manufacture or purify. Theracyte devices offer continuous protein delivery.

## AVAILABLE

FULL LINE OF  
**SURGICAL INSTRUMENTS!**

