Your Monthly Miracle<sup>SM</sup>
Preserving Menstrual Stem Cells

1.800.786.7235 | www.cryo-cell.com

CryoCell
INTERNATIONAL
Storing Stem Cells Since 1992
What are menstrual stem cells?

Menstrual stem cells are highly proliferative stem cells found in the menstrual blood produced during a woman’s period. The stem cells possess the unique ability to develop into various other types of healthy cells. During a woman’s menstrual cycle, valuable stem cells are discarded in the menstrual blood. The Cryo-Cell Menstrual Stem Cell Service easily captures these self-renewing stem cells and then processes and cryopreserves them for emerging cellular therapies and the potential treatment of many life-threatening diseases.

Menstrual stem cells have similar regenerative capabilities as stem cells from umbilical cord blood or bone marrow. The Cryo-Cell Menstrual Stem Cell Service offers any woman in her reproductive years the ability to preserve these cells for herself or potentially for use by a family member, free from ethical or political controversy.

Why should you store menstrual stem cells?

Menstrual stem cells are multipotent because they can differentiate into at least five known cell types. In addition, the stem cells in menstrual blood are highly proliferative - replicating every 24-36 hours. To date, these stem cells have been subcultured up to 47 times; umbilical cord blood stem cells subculture generally a maximum of 12 times.

It is important to note that menstrual stem cells retain embryonic stem cell markers, giving them the remarkable potential to morph into many different healthy cell types. The unique properties of these cells demonstrate the exciting possibilities they offer in future therapeutic applications. Currently, they are being studied to treat stroke, heart disease, diabetes, neurodegenerative diseases, and ischemic wounds in pre-clinical and clinical models.

What makes menstrual stem cells unique?

Menstrual blood contains unique stem cells that express multipotent markers of both adult and embryonic stem cells. These menstrual cells multiply quickly and can differentiate into other types of healthy cells including heart, nerve, bone, cartilage and fat. This is the first time researchers have found an adult stem cell that is recurring and readily accessible. Menstrual stem cells can be easily harvested in an affordable, painless and non-invasive manner, and have vast potential in regenerative medicine.

![Diagram of stem cells and their differentiation potential](image)
How are menstrual stem cells collected, processed and stored?

The menstrual blood is collected in your physician’s office with a proprietary kit developed by Cryo-Cell. Samples are collected during a woman’s menstrual period by using a medical-grade silicone menstrual cup in place of a tampon or sanitary napkin. It is then shipped to Cryo-Cell via medical courier and processed in our state-of-the-art ISO Class 7 clean room. The cells are stored in two cryovials which are overwrapped to safeguard the cells during storage and a technique called “controlled-rate freezing” is used to prepare the cells for long-term storage. The overwrapped storage vials are housed in the vapor phase of liquid nitrogen for cryogenic preservation. Our storage facilities are monitored 24 hrs/day, 365 days/year for security and temperature, keeping your specimen safe and ready for future use.
THE CRYO-CELL ADVANTAGE

The Cryo-Cell mission is to provide our clients with the premier stem cell cryopreservation service and to support the advancement of regenerative medicine.

Cryo-Cell was founded in 1989 and was the world’s first private cord blood bank to separate and store stem cells in 1992. Today Cryo-Cell has over 240,000 clients worldwide from 87 countries.

• Since inception, 100% of Cryo-Cell’s cord blood stem cells released for transplant have been successfully viable upon thaw.

• Accredited by AABB as a cord blood facility, registered with the FDA, cGMP-/cGTP-compliant and ISO 9001:2008 certified.

• State-of-the-art, highly monitored secure storage facility, with a redundant back-up diesel generator and 10,000 gallon liquid nitrogen tank.

• Client Service Advisors are available 24 hours a day, 7 days a week.

• Cord blood, cord tissue and menstrual blood cryopreservation storage is in the vapor phase of liquid nitrogen, and the product is overwrapped for an extra layer of protection against cross contamination.

• Proprietary cryopreservation work station for the preparation of specimens for transfer and/or transplantation.

• Cryo-Cell’s menstrual stem cell cryopreservation service is patent pending.

• Saneron CCEL Therapeutics, Inc., a Cryo-Cell research affiliate, is dedicated to developing therapeutic applications using stem cells as a treatment option for patients suffering from neurological conditions including Alzheimer’s, Lou Gehrig’s (ALS), and stroke.
Preserve your stem cells now

Research has shown that stem cells collected from a younger donor exhibit a higher specific immune system function than from an older donor. One study, performed by Dr. Weissman from Stanford University, examined human aging in blood stem cells. His data demonstrated that in the human blood derived stem cell system it is better to collect cells from a younger healthy donor. Therefore, Cryo-Cell recommends that you preserve your menstrual stem cells now.

Transparency

Cryo-Cell is a publicly-traded company governed by the United States Securities and Exchange Commission. Our financial information is audited by a nationally recognized independent accounting firm and is available to the public.

Pricing - New Client

<table>
<thead>
<tr>
<th>Menstrual Stem Cell Service</th>
<th>1 Year</th>
<th>25 Years</th>
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<tr>
<td>Processing &amp; Testing Fee*†</td>
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<tr>
<td>Total Retail Price†</td>
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*Cryo-Cell activities for New York State residents are limited to collection, processing, and long-term storage of menstrual stem cells. Our possession of a New York State license for such collection, processing and long-term storage does not indicate approval or endorsement of possible future uses or future suitability of these cells.
†Fee schedule subject to change without notice.
‡Medical Courier fee varies in HI, AK and PR. International clients must choose a courier service, and will be billed directly by their selected courier.

Recent research in the menstrual stem cell field by Cryo-Cell

Cryo-Cell and S-Evans Biosciences Obtain FDA Approval for Clinical Trials. S-Evans Biosciences, a Cryo-Cell Chinese affiliate, has recently received FDA approval for two Phase I/II trials for the use of the Cryo-Cell menstrual stem cells. One trial is for the treatment of Type I diabetes and the second trial is for cirrhosis of the liver.

Cryo-Cell and Stanford University Collaborate on Diabetes Research. Cryo-Cell and Stanford University are testing the efficacy of the Cryo-Cell menstrual stem cells in a model of pancreatic islet transplantation for type I diabetes treatment. Specifically, the menstrual blood stem cells provided by Cryo-Cell are being tested in vitro and in vivo to enhance pancreatic islet viability, regeneration, and function during the peritransplantation period.

Cryo-Cell and Saneron CCEL Therapeutics Move Forward on Research. Cryo-Cell and Saneron CCEL Therapeutics, a leading company in the field of regenerative medicine research, are collaborating on the role of menstrual stem cells in restorative treatments for Basal Ganglia disorders including Parkinson’s Disease, Huntington’s Disease and stroke. The stroke data demonstrates immediate behavioral recovery at an early period after transplantation.

Other research using endometrial tissue cells or menstrual stem cells

Medistem Announces Approval from the FDA to Initiate a Dose-escalating Clinical Trial in Patients with Critical Limb Ischemia. Using stem cells taken from menstrual blood, Medistem is moving into a Phase I trial to treat critical limb ischemia, an advanced form of peripheral artery disease, that causes approximately 200,000 amputations per year.

Yale Scientists Use Stem Cell Therapy to Treat Diabetic Mice. Yale researchers took endometrial stem cells and placed them with nutrients and growth factors that are typically present in the pancreas, where insulin-producing beta cells are located. Following a three-week incubation period, the endometrial stem cells began to resemble beta cells, and to produce the proteins that beta cells normally produce. Some even began producing insulin when they were exposed to glucose just as beta cells do.
The capabilities of a woman’s body are miraculous, and now there is even more reason for us to marvel at how we are made.
Corporate Mission

Cryo-Cell’s mission is to provide our clients with the premier stem cell cryopreservation service and to support the advancement of regenerative medicine.