**Cryoreserved Product**

**Peripheral Blood CD4+CD25+ Regulatory T Cells**

<table>
<thead>
<tr>
<th>Catalog#</th>
<th>PB425002C</th>
</tr>
</thead>
<tbody>
<tr>
<td>cells</td>
<td>2 million</td>
</tr>
</tbody>
</table>

**Product Description**

Human Peripheral Blood CD4+CD25+ Regulatory T Cells are isolated from peripheral blood mononuclear cells in a multi-step process.

First, peripheral blood mononuclear cells are collected using the Spectra Optia® Apheresis System. Next, cells expressing CD8, CD14, CD16, CD19, CD20, CD36, CD56, CD123, TCRγ/δ and CD235a are depleted from the mononuclear cell population using immunomagnetic particles leaving purified, untouched CD4+ T lymphocytes. CD25+ cells are then positively selected using immunomagnetic anti-CD25 particles from the untouched CD4+ T lymphocyte population, leaving highly enriched CD4+CD25+ regulatory T cells (T-regs).

Cells were obtained using Institutional Review Board (IRB) approved consent forms and protocols.

**Cryopreservation**

Cryopreserved products allow for prolonged storage before use. Cell products contain 10% DMSO to minimize cell death during freezing. All cryopreserved products are stored in containers designed and tested for ultra-low temperatures at long time intervals. We normally ship cryopreserved items on dry ice, but can also use a cryoshipper at the customer’s request.

**Sample Collection and Processing**

All samples are collected on-site at our Stem Cell Collection Center. Apheresis donors are transfused with ACD-A during the collection process. Samples are then quickly processed in our on-site laboratory to achieve maximum viability and quality. Cryopreserved cells are frozen at -1°C/minute in a -80°C freezer, and then transferred to liquid nitrogen.

Infectious disease testing for HIV, HBV, and HCV is performed on a sample of donor blood. Only samples with negative results within 90 days of collection are shipped. All testing is performed by a CLIA-certified lab.

**Format**

Isolated cells are normally frozen in CryoStor™ CS10 (10% DMSO). We can also use freezing media as specified by the customer.

**Storage**

Cryopreserved cells should be maintained at -135°C or colder (in liquid nitrogen). The cells are warranted for twelve months from the date of receipt if stored at -135°C or colder. Storage of cells at -80°C for less than one month should maintain cell viability but is not covered by the warranty.

**Thawing Instructions for Cell Products**

Refer to our “How to thaw StemExpress primary cells for optimal viability?” under our Frequently Asked Questions at stemexpress.com/faqs/ to access our online Thawing Protocol.

**Warning**

This product contains human tissue or other biological material and MUST be handled at Biosafety Level 2 or higher. All biological products should be treated as potentially infectious or contaminated material, even if infectious disease screening reports are negative. Follow universal precautions and wear appropriate personal protective equipment.

**Product Warranty**

For our product warranty, please review our Terms and Conditions at stemexpress.com/terms-and-conditions/.

**FOR IN VITRO RESEARCH USE ONLY. NOT APPROVED FOR HUMAN OR VETERINARY USE IN VIVO.**