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## Cryopreserved Product

Cord Blood CD8+CD45RA+ Naive Cytotoxic T Cells

Catalog# CB845RA05C 5 million cells

### PRODUCT DESCRIPTION

Human Umbilical Cord Blood CD8+CD45RA+ Naive Cytotoxic T Cells are isolated in a multi-step process.

First, whole umbilical cord blood is needle aspirated from the umbilical cord vein using a cord blood collection bag containing 35 mL of the anticoagulant citrate phosphate double dextrose (CP2D). Mononuclear cells are then enriched from the cord blood suspension using a density gradient centrifugation protocol. Finally, cells expressing CD4, CD14, CD16, CD19, CD20, CD36, CD45RO, CD56, CD66b, CD123, TCR $\gamma/\delta$  and CD235a are depleted from the mononuclear cell population using immunomagnetic particles leaving purified, untouched CD8+CD45RA+ naïve cytotoxic T cells.

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 at nearby partner hospitals or clinics. Samples are then quickly processed in our on-site laboratory to achieve maximum viability and quality. Cryopreserved cells are frozen at  $-1^{\circ}\text{C}/\text{minute}$  in a  $-80^{\circ}\text{C}$  freezer, and then transferred to liquid nitrogen.

Infectious disease testing for HIV, HBV, and HCV is performed on a sample of cord blood 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  $-135^{\circ}\text{C}$  or colder (in liquid nitrogen). The cells are warranted for twelve months from the date of receipt if stored at  $-135^{\circ}\text{C}$  or colder. Storage of cells at  $-80^{\circ}\text{C}$  for less than one month should maintain cell viability but is not covered by the warranty.

### THAWING INSTRUCTIONS FOR CELL PRODUCTS

Refer to the Technical Support page at [cgt.global/technical-support/](http://cgt.global/technical-support/) to access our online Thawing Protocols.

### 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 [cgt.global/terms-and-conditions/](http://cgt.global/terms-and-conditions/).

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