



Innovative Life Science Solutions™

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**Product Description ©2008**

## **CPZ™ Cryopreservation Medium**

### **General Description**

CPZ™ is a proprietary, ready-to-use cryopreservation medium. It contains a proprietary formulation that includes growth factors, cytokines, 10% v/v fetal bovine serum (FBS), and cryoprotectants, including dimethylsulfoxide (DMSO). It was developed for fragile neural cells and has been successfully used to cryopreserve many types of human and animal cells, including lymphocytes and other blood cells, and a variety of tumor cells.

### **Formulation and Manufacturing**

CPZ™ contains components that bind water molecules and provide vitrification for cryopreservation of human and other mammalian cells. CPZ™ is supplied with DMSO in a separate bottle (product #MCPDF-50). DMSO is added just prior to use to a final concentration of 5% to 10% (v/v), depending on the optimal preferences of the cell type. The complete formulation contains clinical grade hydroxyethyl starch, and dextran and is supplied with highly purified dimethylsulfoxide (DMSO, >99.9% pure). CPZ™ is manufactured to FDA and cGMP guidelines in an ISO Class 7 environment. All components are endotoxin-tested and filtered through a 0.22 micron filter and checked for sterility (bacteria, fungi, mycoplasma).

### **Cryopreservation of Cells in CPZ™**

The DMSO is added to the CPZ™ medium for use at a final concentration of 5-10% (v/v) depending on the cells being studied. Slowly freeze the cells in cryovial(s) or bags (cell numbers depending on type of cell) at approximately -1°C per minute using a controlled rate freezer or by suspension of the cryovessel in an alcohol bath placed in a -80°C freezer overnight, then transferred for longer term storage to an ultralow (-135°C) or liquid nitrogen freezer. As a general rule, the cell pellet should not exceed 20% of the total volume of CPZ™.

### **Reconstitution of Cells from CPZ™**

Thaw vial(s) rapidly in a 37°C water bath. Wipe down outside of vial with 70% ethanol prior to opening. Gently and aseptically transfer cells to 2 ml warmed culture medium appropriate for the cell type in a 15 ml conical centrifuge tube. Add about 4 ml additional culture medium, then pellet the cells by centrifugation (low speed 300 x g). Transfer to a 75-cm<sup>2</sup> culture flask and incubate cells at 37°C in a 5% CO<sub>2</sub>/95% air or other appropriate gas mix incubator.

### **Storage of CPZ™**

CPZ™ must be stored in the provided light-protective bag at 4°C. Shelf-life is 12 months from the manufacture date.

### **Packaging**

INCELL CPZ™, Product #MCPDF-50 (50 ml), is provided with dimethylsulfoxide (DMSO) in a separate bottle. Larger CPZ™ volume containers can be custom ordered with a 2-week lead-time.

### **Ordering Information**

Either MasterCard or Visa or a purchase order may be used to purchase CPZ™ from:

INCELL Corporation, LLC  
12734 Cimarron Path, San Antonio, TX 78249  
Phone: 1-800-364-1765 Fax: 210-877-0200  
[www.incellonline.com](http://www.incellonline.com)

### **Technical Assistance**

The scientists at INCELL are available to discuss the particular needs of your cells and to assist you in your cell culture applications. Call 1-800-364-1765 or e-mail [info@incell.com](mailto:info@incell.com).

### **Master Files Applications Note**

CPZ™ is in FDA Drug and Device Master Files but has not been tested by INCELL for any specific diagnostic or therapeutic use. To request use of a Master File call, fax, or email to [masterfiles@incell.com](mailto:masterfiles@incell.com).