C80EZ® Technology

CASE STUDY

WAYNE STATE RESEARCHERS INVESTIGATE NEW METHOD FOR CRYOPRESERVING CANCER CELLS

About CryoCrate, LLC

In today's market, there are numerous cell and tissue types that (a) cannot be cryopreserved or (b) can be cryopreserved, but lose post-thaw viability. Cryopreservation is a critical platform technology for biomedical research and applications. Our mission is to revolutionize cryopreservation in the life sciences, with a focus on cells and tissues that currently cannot be maintained under medium and long-term storage conditions.

Contact Us

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Ordering Information

C80EZ® Cryopreservation Media

Cat#	Cell Types
501001	mammalian (w/phenol red)
501002	mammalian
501003	mammalian (w/HEPES)
601001	insect
701001	competent cells, bacteria

BACKGROUND

Researchers in the Dr. Iyer Lab at Wayne State University were interested in reducing their dependency on both fetal bovine serum (FBS) and on the use of liquid nitrogen (LN_2) for storage of MDA-MB-468 and PANC-1 cell lines.

EXPERIMENT

Researchers compared MDA-MB-468 and PANC-1 cells frozen in LN_2 using their standard protocol (FBS and DMSO in DMEM) to cells frozen at -80°C using C80EZ® and DMSO in DMEM. Following a three-month storage period, cells were examined for their post-thaw viability.

RESULTS

"*The C80EZ is perfect in maintaining greater than 90% cell viability*," according to Dr. S. Sau, a researcher in the Dr. Iyer Lab. "*The cells easily attached to the flask within one day, the cells morphology and growth pattern are the same as it was during freezing, and the cells looks healthy and proliferating. We are very comfortable moving to this new serum-free protocol and being able to store cells at -80C*," added Sau.