



PurMa Biologics, LLC

General Guideline for Cryoprotective Agent Used for Specific Cells Lines

References:

1. [Chemical approaches to cryopreservation](#) Kathryn et al. Nat Rev Chem. 2022; 6(8): 579–593. Published online 2022 Jul 18. doi: 10.1038/s41570-022-00407-4 PMID: PMC9294745.
2. [Dimethyl sulfoxide has an impact on epigenetic profile in mouse embryoid body.](#) Iwatani et al. Stem Cells. 2006 Nov;24(11):2549-56. doi: 10.1634/stemcells.2005-0427. Epub 2006 Jul 13. PMID: 16840553.
3. [Cryopreservation: An Overview of Principles and Cell-Specific Considerations.](#) Whaley et al. Cell Transplant. 2021 Jan-Dec; 30: 0963689721999617. Published online 2021 Mar 24. doi: 10.1177/0963689721999617, PMID: PMC7995302.
4. [Optimization of cryoprotectant treatment for the vitrification of immature cumulus-enclosed porcine oocytes: comparison of sugars, combinations of permeating cryoprotectants and equilibration regimens.](#) Tamás et al. J Reprod Dev. 2015 Dec; 61(6): 571–579. Published online 2015 Sep 27. doi: 10.1262/jrd.2015-089, PMID: PMC4685224.
5. [A Strategy for Sperm Cryopreservation of Atlantic Salmon, *Salmo salar*, for Remote Commercial-scale High-throughput Processing.](#) Huiping et al. J World Aquac Soc. Author manuscript; available in PMC 2019 Feb 1. Published in final edited form as: J World Aquac Soc. 2018 Feb; 49(1): 96–112. Published online 2017 May 18. doi: 10.1111/jwas.12431, PMID: PMC5891143.
6. [Cryopreservation of primary cultures of mammalian somatic cells in 96-well plates benefits from control of ice nucleation.](#) Martin et al. Cryobiology. 2020 Apr; 93: 62–69. doi: 10.1016/j.cryobiol.2020.02.008. PMID: PMC7191264.
7. [Sperm Cryodamage in Ruminants: Understanding the Molecular Changes Induced by the Cryopreservation Process to Optimize Sperm Quality.](#) Patricia et al. Int J Mol Sci. 2020 Apr; 21(8): 2781. Published online 2020 Apr 16. doi: 10.3390/ijms21082781, PMID: PMC7215299.
8. [Cryopreservation of Mammalian Oocytes by Using Sugars: Intra- and extracellular raffinose with small amounts of dimethylsulfoxide yields high cryosurvival, fertilization, and development rates.](#) Eroglu, A. Cryobiology. Author manuscript; available in PMC 2011 Jul 1. Published in final edited form as: Cryobiology. 2010 Jul; 60(3S): S54–S59. Published online 2009 Jul 9. doi: 10.1016/j.cryobiol.2009.07.001. Correction in: volume 61 on page 361. PMID: PMC2891843