

# Cryopreservation Solutions

SCIENTIFIC CONSULTATION COMBINED WITH EXTENSIVE EMBRYOLOGY EXPERTISE CREATE A COMPLETE CRYOPRESERVATION SOLUTION




## SPERM AND EMBRYO CRYOPRESERVATION

Taconic Biosciences' sperm and embryo cryopreservation services provide secure and permanent preservation of your valuable research models. Cryopreservation of your lines serves as a low-cost insurance for your colony, providing protection from genetic drift or a catastrophic loss.

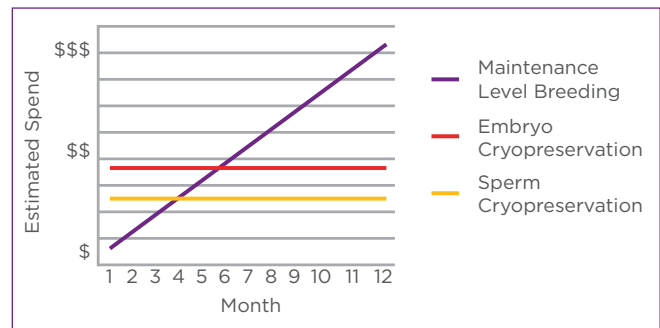
Cryopreservation can also be used to archive intermediate genotypes during intercross or backcross breeding, or as an inexpensive alternative for sharing your lines with collaborators across the globe.

Donor animals for cryopreservation can be shipped directly to Taconic or selected from your own breeding colony at Taconic.

## SUMMARY OF SERVICE

-  Sperm cryopreservation includes **15-20 straws** (available on mouse only).
-  Embryo cryopreservation includes **250 embryos** (available on mouse and rats).
-  Service includes supporting *in vitro* QC data. A trial recovery to live born also available for added confidence.
-  **Dual-site storage** of cryopreserved material.
-  Donor animals for cryopreservation can be shipped directly to Taconic (health monitoring reports not usually required).
-  Donors for embryo cryopreservation can be used from client's breeding colony to preserve genotype and/or strain background.
-  Dedicated scientific program manager, project manager, and embryologist partner with you to develop customized solutions that meet your specific project requirements.

## COST ANALYSIS: CRYOPRESERVATION VS. MAINTENANCE BREEDING



## METHOD SELECTION GUIDE

METHOD	EMBRYO CRYO	SPERM CRYO
Single gene modification	✓	✓✓✓
Multiple gene modification	✓✓✓	✓
Mixed genetic background	✓✓✓	X
X linked mutation	✓✓✓	✓
Y linked mutation	X	✓✓✓
Mitochondrial DNA mutations/Polymorphism	✓✓✓	X

## REQUIREMENTS AND DELIVERABLES

DESCRIPTION	EMBRYO CRYO	SPERM CRYO
# Donors required for cryopreservation	25-30 female & 2 male donors	2 male donors
Pre-expansion breeding required	Yes	No
Timeline to complete cryopreservation with live recovery QC	16-20 weeks*	4-6 weeks
Cryopreserved material stored per line	250-300 embryos	15-20 straws
# Pups can be recovered from cryopreserved material per line	Tens	Hundreds

\* 16-20 weeks include pre-expansion breeding

LEARN MORE AT: [TACONIC.COM/CRYOPRESERVATION](https://www.taconic.com/cryopreservation)

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