



Additional Agreement to Use Donor CB 563

We, _____ (Recipient), and _____ (Partner, if applicable), specifically request and accept frozen semen from Cryobio donor CB 563. We understand that this Additional Agreement is an additional part of the Sperm Use Agreement specific to this donor who has tested negative for the 502 gene expanded genetic carrier screening. We have received genetic test results on this sperm donor, and we understand that **the donor was NOT found to be a carrier for any of the 502 genes and genetic conditions for which screening was done.**

Why carrier status is important: Carriers of genetic diseases have changes, called pathogenic variants or mutations, in a specific gene or multiple genes. Most of the genetic diseases that the Cryobio donors are tested for are inherited in an autosomal recessive pattern. Typically, we all have two copies of every gene---one from the egg source and one from the sperm source. Autosomal recessive diseases require a mutation in both copies of the same gene in order for it to cause disease. Therefore, individuals who carry just one mutation in a gene that causes recessive disease are ‘carriers’ of that specific disease. Carriers of most of the genetic diseases Cryobio donors are tested for do not show symptoms of the disease, i.e., they are asymptomatic. Some diseases tend to occur more in certain ethnicities, and some tend to occur evenly in all ethnicities. Most individuals are carriers for at least one if not multiple recessive genetic diseases.

Carrier status is important because if both the egg source and the sperm source are carriers for pathogenic variants or mutations in the same gene, then there is a 1 in 4 chance of the resulting child having that specific disease; a 2 in 4 chance of the resulting child being a carrier for that specific disease; and a 1 in 4 chance of the resulting child being neither a carrier nor having that specific disease. Some of the diseases Cryobio donors are tested for have genotype-phenotype correlation, meaning that specific genetic pathogenic variations (the genotype) in a specific gene can be predictive of the type of specific disease that may present in the individual (the phenotype), but not all do.

Cryobio has advised us of the following:	Please initial to show your understanding and agreement:
The donor we have chosen has had negative results from the 502 gene expanded carrier genetic testing. These results indicate that the donor is NOT a carrier for any of the genetic conditions tested for through Sema4. Please refer to the donor’s genetic test results for a full list of conditions that were tested for.	Initials: _____ Initials: _____
The genetic conditions tested for are inherited in recessive patterns. This means that if both the egg source and the sperm source are carriers for mutations in the same gene, there is a significantly higher chance of the resulting child having that genetic condition.	Initials: _____ Initials: _____
By the donor testing negative through Sema4, the risk to a resulting child <i>for those 502 specific genetic conditions for which testing was done</i> is not eliminated but would now be lower than that of the general population.	Initials: _____ Initials: _____

Both the risk of being a carrier and the sensitivity of the genetic testing can vary depending on the individual's ethnicity. When an individual tests negative for carrier status, it does not completely eliminate their chance of being a carrier for that disease. Instead, their remaining (residual) risk of being a carrier is determined by their ethnic background. While a negative result decreases the likelihood that an individual is a carrier, how much that risk is reduced by can vary significantly. For more detailed information regarding the sensitivity of testing and remaining risk after negative screening, please see Sema4's website.	Initials: _____ Initials: _____
Genetic testing for me (or the egg source, if different) can also be done to better understand and further reduce the risk to offspring.	Initials: _____ Initials: _____
Expanded genetic carrier screening is continuing to evolve, and at the time this donor entered the program this was the screening available. My health care provider may recommend an expanded carrier screen that includes/included more than the 502 genes screened for in this donor. It is my responsibility to share this information with my health care provider and review the risks and benefits of being screened for more (or fewer) genetic conditions.	Initials: _____ Initials: _____
The genetic testing done on the donor does <i>not</i> screen for all known genetic conditions.	Initials: _____ Initials: _____
While genetic testing can lower the likelihood for certain genetic diseases, no amount of genetic testing can guarantee that a child will be healthy, or free of all genetic diseases.	Initials: _____ Initials: _____
Genetic counseling is available to us, either through Cryobio or Sema4, if we have additional questions regarding these test results and potential risks.	Initials: _____ Initials: _____

We have read the above material and understand the risks that remain from using donor sperm from donor CB 563, who has negative expanded genetic carrier screening results. We agree to release any legal claims, including negligence, that may arise from or are related to insemination or assisted reproduction using donor sperm from donor CB 563.

We have had the chance to read and ask questions, and we understand and agree to the terms of this Additional Agreement to use donor CB 563.

 Recipient Date

 Partner, if applicable Date

William C. Baird, PhD. 11-01-2022
 Cryobio Date