

SELECT A PRODUCT FROM THE LIST BELOW

- FertiCult Aspiration
- FertiCult IVF
- FertiCult Flush
- GAIN medium
- Mineral Oil
- 10% PVP
- Hyaluronidase
- Sil-Select Plus
- Sil-Select Stock
- SpermFreeze
- SpermFreeze SSP
- EmbryoFreeze
- *FertiVit*
- Vitrification
- Vitrification ES

SPERMFREEZE SSP™

Medium for freezing human sperm cells

SpermFreeze SSP™ is a single step freezing medium for use with human sperm cells. The medium is clear (does not contain any milk, egg yolk, ...) and can be used direct from the bottle.

SpermFreeze SSP™ requires 1ml of medium for each 3ml of semen. We also offer a less concentrated SpermFreeze™ which allows 1ml of semen to be frozen with 0.7ml of SpermFreeze™

SpermFreeze SSP™ is CE marked as a Class III medical device according to the European Medical Device Directive 93/42/EEC.

SpermFreeze SSP™ complies with the following specifications:

pH	7.2-7.6
Sterility	Sterile
Endotoxine	< 0.25 EU/mL
Sperm Survival test	≥ 80% motility recovery after 4 hours exposure
Shelflife	18 months from date of produce
Albumin	FDA (USA) and EMEA (Europe) compliant

Product order codes

SSP001	5x 1ml SpermFreeze SSP™ medium
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The product composition can be found in the MSDS (see Resources). Additional information on some components is provided below:

Component	Benefit
HEPES (20 mM)	HEPES stabilizes the pH under air (Clark and Swain 2014), therefore CO2 incubation is not required.
	Cryoprotectants act by decreasing the freezing point of a substance, reducing the amount of salts and solutes present in the liquid phase of the sample and by decreasing ice formation within the spermatozoa. Importantly, the cryoprotectant should

RESOURCES



Click on the links below for more information.

- Instructions for use
- (M)SDS – GB
- (M)SDS – DE
- (M)SDS – FR
- FAQ
- Cert of Analysis
- Contact us

Glycerol	<p>be non-toxic to the cells during the addition of the cryoprotectant and during freezing and thawing.</p> <p>Glycerol is a permeating cryoprotectant which is most widely used for human sperm cryopreservation and meets all criteria indicated above. Glycerol acts on the membrane structure, permeability and stability of the lipid bilayer, the association of surface proteins and the cellular metabolism (Di Santo, et al. 2012).</p>
Macromolecules (4 g/L HSA and sucrose(20 mM))	<p>Cryoprotective solutions have been supplemented with macromolecules such as sucrose and human serum albumin (HSA). Several studies have shown that such molecules help to reduce physical damage and help to maintain osmotic pressure of the extracellular fluid (Shaw, et al. 2000).</p> <p>Besides its cryoprotective role, HSA facilitates gamete or embryo manipulation by preventing adsorption to the surface of petri dishes and pipettes through saturation of the potential binding sites. Also, the increased viscosity of the media, caused by the addition of HSA, promotes the ease of embryo handling and manipulation (Trousseau and Gardner 2000).</p>

Product literature

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