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Frequently asked questions
Some recent questions and answers that might be useful to you.

Are antibiotics included in PureSperm® 100?
– No, PureSperm® 100 does not contain antibiotics, for the following reasons:
1. The gradient will remove most, if not all, of the bacterial contamination present in the ejaculate, provided that the retrieval of the sperm pellet is carried out according to the instructions given in the package insert.
2. Antibiotics commonly used in cell culture media are toxic to sperm.

What device should I use with the VitriBlast® kit?
Any device can be used. In the manual we have used the cryoloop but it works with all other devices on the market.

Is there any human serum albumin in PureSperm® 40 and PureSperm® 80?
– Research in our laboratory showed that the yield of motile sperm recovered from the gradient was approximately the same, regardless of whether or not the gradient layers contained human serum albumin. Therefore, we have not included any protein in PureSperm® 40 and PureSperm® 80. The colloid in these products eliminates aggregation of sperm and reduces their sticking to the centrifuge tube. However, human serum albumin must be added to the “wash” solution, as provided in PureSperm® Wash.

If you have other questions, do contact us!

Who to contact
Product Specialist
Ms. Ann-Sofie Forsberg
Direct +46 31 703 06 42
ann-sofie@nidacon.com

Ordering information:
All components are gamma sterilized and mouse embryo tested.
If you are interested, please contact Nidacon and we will be happy to supply you with a sample.

Upcoming events
AAEP – Equine conference
2-5th of December 2012, Los Angeles, United States

Cryo – Controversies in cryopreservation of stem cells, reproductive cells, tissue, organs & cryo surgery.
21-23rd of March 2013, Berlin, Germany

SSRM – American Society for Reproductive Medicine
October 22-24, 2012, San Diego, United States

ESHRE – 21-22nd of May 2012, Stockholm, Sweden

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Christmas holiday – Nidacon will be closed from the 24th of December until 2nd of January

This device has been tested in several IVF clinics and is used routinely at the clinic in Pretoria, South Africa; results from there have been published by Dr. Carin Huyser and her group.

The device that will make your sperm preparation easier
This novel device consists of an insert within a centrifuge tube. The outer chamber of the ProInsert™ is designed for easy layering of PureSperm gradient layers and for adding the semen sample on the gradient prior to centrifugation.

The central channel is designed for the safe and easy removal of the sperm pellet after centrifugation. You will achieve a very clean preparation, and avoid the risk of recontamination.

The kit consists of 5 sterile tubes including the insert, tubes for the washing of the pellet and 5 specially designed pipettes for retrieval of the pellet.

“Elimination of bacteria from human semen during sperm preparation using density gradient centrifugation with a novel tube insert”
J. Fourie, N. Loskutoff & C. Huyser
Andrologia Vol 44, pp 513-517, 2012

Use of a novel washing method combining multiple density gradients and trypsin for removing human immunodeficiency virus-1 and hepatitis C virus from semen
Loskutoff, Huyser, Singh, Walker, Thornhill, Morris, Webber, Path
Fertility and Sterility Vol.84 No 4, October 2005

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Ordering information:
5 Sterile one patient kits in each package.
The product cat. no. is PI15-5
Evaluation of the effects of different in vitro incubation conditions on sperm DNA integrity

Abstract

Introduction:

Prolonged in vitro incubation of spermatozoa has been shown to have adverse effects on sperm motility, vitality as well as on DNA integrity. Knowledge regarding how shorter incubation periods prior to the IVF/ICSI procedure affect semen quality is however limited.

The aim of the present study was to examine if sperm DNA integrity was affected during incubation in three different conditions for 2 hours after sperm preparation prior to the IVF/ICSI procedure.

Materials and Methods:

Density gradient centrifuged samples from two hundred men undergoing infertility work-up were included in the study. Following gradient centrifugation one reference sample was frozen immediately. Thereafter samples were divided into three aliquots and incubated for two hours in either: 1) room temperature (23-24°C); 2) in a 37°C humidified incubator with 6% CO₂ and 5% O₂ or 3) in a 37°C humidified incubator with atmospheric air. The Sperm Chromatin Structure Assay (SCSA) was used to assess the extent of sperm DNA damage. Sperm DNA fragmentation was expressed as DNA fragmentation index (DFI).

Results:

A statistically significant increase in DFI was seen in density gradient prepared samples incubated for 2 hours at 37°C, 6%CO₂ and 5%O₂ compared to the reference sample taken immediately after preparation. This was the case also for samples incubated at 37°C in atmospheric air. Moreover, statistically significant lower DFI levels were seen in the group incubated at room temperature compared to those incubated at 37°C, 6%CO₂ and 5%O₂ or at 37°C in atmospheric air.

Conclusions:

In order to prevent against further sperm DNA damage after density gradient preparation prior to the IVF/ICSI procedure, spermatozoa should be stored at room temperature.

This poster was presented atESHRE in Rome 2011 by the Skåne University Hospital, Reproductive Medicine Centre, Malmö, Sweden.

VitriBlast™ and ThermoBlast™

Now even longer shelf life!

After trials carried out at Fertility Centre ART-clinic at Carlanderska Hospital, Gothenburg we are now able to prolong the shelf life to 12 months instead of 9 months. This will help us ensure that products are always on the shelf for you and also that you can use the same batch for a longer period.