

Nidacon News

The news letter from your ART supplier • No 1 • 2024

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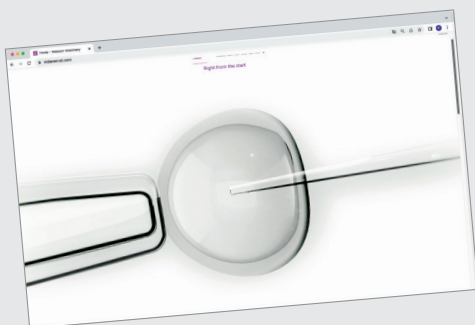
The stability of Nidacon products

Nidacon Colloidal products, exemplified by EquiPure and BoviPure, have a shelf-life of two years and un-opened they can be stored at room temperature.

The products exhibit remarkable resilience, remaining unaffected by fluctuating temperatures. Whether exposed to freezing conditions or heat, such as in airport storage, they maintain their integrity without compromise. Rigorous stress tests conducted across temperatures ranging from -18°C to +50°C affirm their stability.

However, once opened, it becomes important to safeguard their stability by storing them in the refrigerator. The shelf life still applies after opening provided they are stored in the refrigerator.

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Don't miss our website!

Explore our range of veterinary products at nidaconvet.com

Access essential resources such as product information, documents, manuals, and protocols. Experience shopping through our webshop.

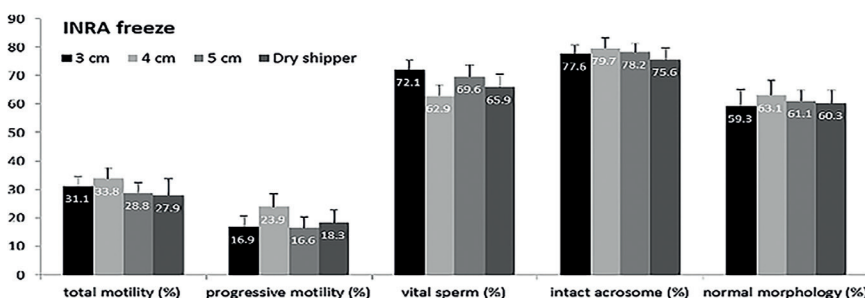
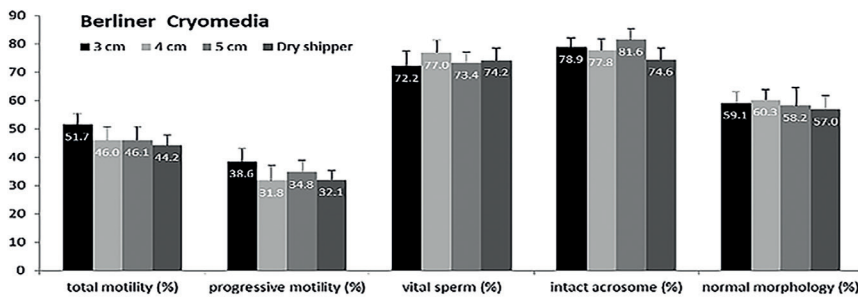
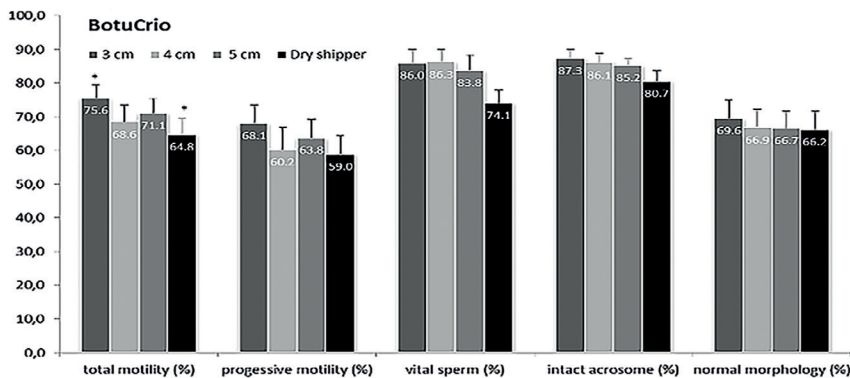
Welcome to our website!

Advancements in Rhinoceros Sperm Cryopreservation

Nidacon is enthusiastic about contributing to rhinoceros preservation efforts at a time when extinction looms for several rhinoceros species.

Researchers at the Leibniz Institute for Zoo and Wildlife Research, Berlin, Germany have made significant strides in improving cryopreservation techniques for rhinoceros sperm, which play a pivotal role in safeguarding species facing threats of extinction and poaching.

In a comprehensive study, three freezing extenders were tested on sperm obtained from 14 bulls. Among these, BotuCrio®, containing glycerol and methyl formamide, emerged as the most effective, yielding post-thaw total and progressive motility rates of 75.3% and 68.5%, respectively. Surprisingly, the removal of seminal plasma did not result in improved post-thaw sperm survival.



Moreover, this study establishes a new benchmark in rhinoceros sperm preservation.

Further investigations into freezing rates revealed that rates ranging from -11°C/min to -15°C and -29°C/min to -100°C were optimal. Additionally, centrifugation followed by resuspension in BotuCrio® significantly enhanced outcomes, suggesting a promising avenue for improving sperm survival. This novel protocol not only promises enhanced survival but also hints at the potential benefits of reducing glycerol concentration in favor of methyl formamide, which could revolutionize cryopreservation techniques for other wildlife species.

Moreover, this study establishes a new benchmark in rhinoceros sperm preservation, setting the stage for more effective conservation efforts. Despite past limitations, this research underscores the critical role of assisted breeding programs in wildlife conservation, particularly for vulnerable rhinoceros species.

Ref: Hermes R et al, Cryopreservation in Rhinoceros – setting a new benchmark for cryo-survival, PloS one, 2018-07, Vol.13 (7), p.e0200154-e0200154

Semen Centrifugation and Cholesterol



Both BotuSemen Gold and BotuSemen Special are enriched with cholesterol, a vital component for membrane protection.

However, a crucial consideration arises when performing centrifugation on ejaculate to eliminate seminal plasma.

It is important not to use an extender containing cholesterol for centrifugation if the intention is to use BotuSemen Gold or BotuSemen Special for resuspending the sperm pellet. Instead, opting for BotuTurbo or BotuSemen as the centrifugation medium is advisable. Following centrifugation, the pellet can then be effectively resuspended in BotuSemen Gold or Special.

This precautionary measure is necessary to prevent cholesterol oversaturation, which could impede capacitation – a critical process for achieving fertilization success.

Summary: Avoid the use of extenders containing cholesterol for both centrifugation and resuspension processes.

Nidacon Sponsored PoLSKI CPD in January



Nidcon sponsored the wonderful PoLSKI CPD conference in a ski-resort (Szczyrk) in Poland in January 2024.

A very intimate conference with highly engaged audience and lecturers. All delegates were involved and lots of experience were shared between all.

A very big plus that the venue was a hotel right next to the ski-slopes of Szczyrk where the participants spent the first half of the days in the slopes.



New members of the Nidacon team

Madeleine Holmberg and Sofia Liman both with a lot of experience from pharmacy has recently joined us at Nidacon. They will ensure that our production is up to date and that all our products maintain the high quality that you are used to.



Madeleine Holmberg



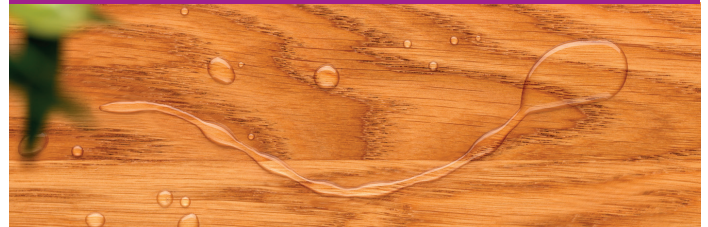
Sofia Liman

Nidacon will be closed 8-10th of May due to national holiday.



Nidacon will remain open throughout the summer, ready to assist you with all your orders, requests, and any questions you may have.

We wish you a delightful summer



Coming up

- **ESER European Practitioner Symposium on Equine Reproduction**
Ghent, Belgium,
10-11 October
2024



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