

HHP 1400

“Stress for stress tolerance”



A well defined and properly applied **high hydrostatic pressure (HHP)** treatment of cells induces general adaption and increases cell survival and developmental competence.

Besides passively satisfying cells' needs, improve actively their resistance and performance!

A fundamentally new approach

Controlled stress enhances cell functionality

Why does controlled stress enhance cell functionality?

- Induces transient cellular stress reaction
- Cells prepare to the forthcoming detrimental effects

Unlike any other stresses, hydrostatic pressure:

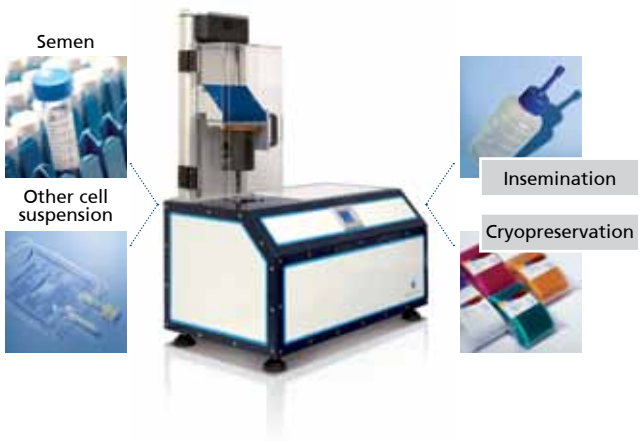
- Acts immediately, no gradient effects or penetration problems
- Affects every point of the sample in every direction
- Most precisely controlled
- Works with the largest safety margin

We offer HHP 1400 for the following cell types:

- Spermatozoa
- Cord blood
- Cell suspensions of large volumes

HHP treatment increases survival rate after cryo-preservation and improves developmental competences compared to untreated samples.

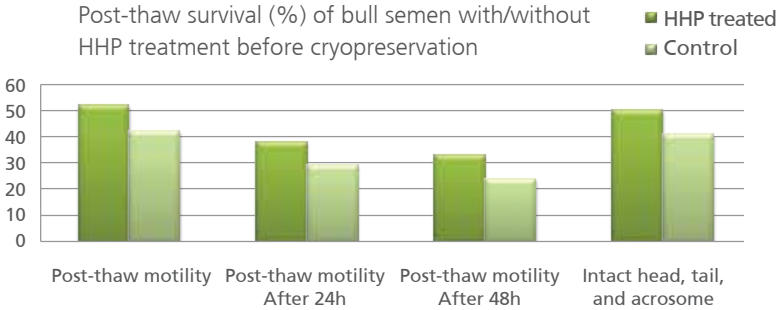
High hydrostatic pressure (HHP) treatment



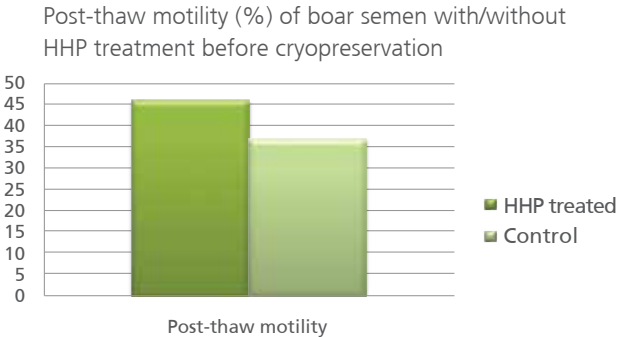
Spermatozoa or other cell types in conventional extender or media is treated in straws, tubes or custom plastic containers.

Published effects of the HHP treatment

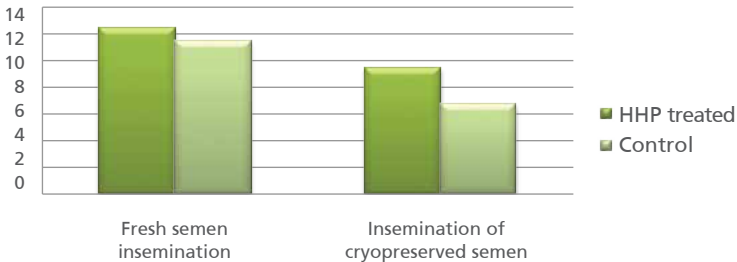
Results when bull semen was treated



Results when boar semen was treated



Litter sizes achieved by the insemination of HHP treated fresh or cryopreserved boar semen



References

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For more information,
please visit our website or get in contact with us!



Cryo-Innovation Ltd.
Úri u. 25., Budapest 1014, Hungary
Phone: +36 1 240-4515
Fax: +36 1 240-4515
E-mail: office@cryo-innovation.com
www.cryo-innovation.com

Patented and several patents pending