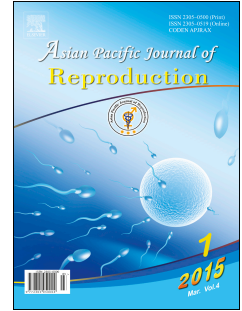


# Accepted Manuscript

Substitution of egg yolk with different concentrations of soybean lecithin in tris-based extender during bulls' semen preservability

Dr. Gamal A. Sisy, Walid S. El-Nattat, Reda I. El-Sheshtawy, Amal M. Abo El-Maaty



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1 **Substitution of egg yolk with different concentrations of soybean lecithin in tris-**  
2 **based extender during bulls' semen preservability**

3 Gamal A. Sisy, Walid S. El-Nattat, Reda I. El-Sheshtawy, Amal M. Abo El-Maaty  
4 Animal Reproduction and AI Dept., National Research Center, Dokki, Egypt

5 **Abstract**

6 Nowadays, the substitution of egg yolk with low bacterial attack stuff in the semen  
7 extender is the main target all over the world. The plant source was proofed to be  
8 excellent substitute for egg yolk especially soybean extracts. Soybean lecithin is one of  
9 those extracts that has been recently discovered.

10 **Aim:** the present study aimed to investigate the effect of various concentrations of  
11 soybean lecithin (SL) as an alternative for egg yolk in bull semen extender on post-  
12 chilling and post-thaw sperm quality characteristics.

13 **Methods:** Semen ejaculates were collected from three mature bulls' once/week for 5  
14 weeks. After initial evaluation the approved ejaculates were pooled and extended  
15 gradually 1:7 with tris-citrate-fructose egg yolk (TCFY) extender (control) and tris-  
16 citrate-fructose (TCF) + different concentration of soybean lecithin (0.5, 1.0, 1.5, 2.0,  
17 2.5, 3.0, 3.5 and 4.0%) to ensure 60 million motile spermatozoa.ml<sup>-1</sup>, and then proceeded  
18 an adopted international cryopreservation protocol. Frozen straws were thawed at 37 °C  
19 for 30 s. The parameters studied were sperm motility, viability, abnormality, membrane  
20 integrity (HOST) and normal intact acrosome percentages in chilled and frozen-thawed  
21 semen.

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Corresponding author: Dr. Gamal A. El-Sisy, Animal Reproduction and Artificial Insemination Dept.,  
National Research Centre, Dokki, Giza, Egypt. Mobil: 202 01121410020, Fax: 202-37601877, Mail  
Address: [gelsisy@yahoo.com](mailto:gelsisy@yahoo.com), Postal code: 12622, NRC, Dokki, Egypt.

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