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Supplementary Material

Cryoprotective Effects of Green Tea (*Camellia sinensis*) Extract in Egg-Yolk Extenders during Cryopreservation of Kail Ram Semen

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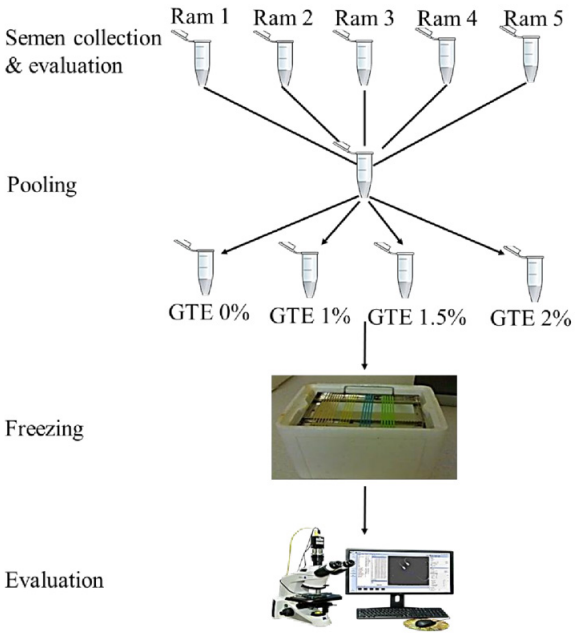

Supplementary Fig. 1. Schematic diagram of the experimental workflow for semen cryopreservation. (A) Pooled Kail ram semen was divided into four aliquots. (B) Each aliquot was diluted in a Tris-egg yolk extender containing one of four concentrations of green tea extract (GTE): 0% (control), 1.0%, 1.5%, or 2.0%. (C) Extended semen was loaded into 0.5 mL straws, equilibrated at 4°C for 2 hours, frozen in liquid nitrogen vapor, and (D) stored in liquid nitrogen (-196°C) for one week. (E) Post-thaw analysis was performed using a Computer- Assisted Sperm Analyzer (CASA) to evaluate motility and kinematic parameters.

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