

Supplementary Material

Effect of zinc supplementation on the quality of cooled, stored equine sperm

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Table S1. Average values of sperm quality parameters (sperm morphology, sperm motility, kinetic parameters, membrane and acrosomal reaction) of fresh semen.

Parameters	Stallion 1	Stallion 2	Stallion 3
TM (%)	82.2±3.8 ^a	97.85±2.23 ^b	98.73±1.33 ^b
PM (%)	57.65±9.84	71.26±1.22	76.07±14.41
VCL (µm/s)	95.11±8.3	78.44±1.58	87.93±26.04
VAP (µm/s)	68.06±3.9	54.53±2.49	61.6±21.6
VSL (µm/s)	51.48±2.74	44.41±0.25	46.59±11.61
LIN (%)	52.5±6.9	55.09±0.58	54.79±3.8
STR (%)	71.5±4.21	79.42±2.48	76.17±8.79
WOB (%)	70.76±4.45	67.76±1.62	70.13±2.88
ALH (µm)	3.46±0.53	2.83±0	3.12±0.77
BCF(Hz)	7.19±1.22 ^a	10.68±0.63 ^{ab}	9.67±0.91 ^b
N (%)	86.67±4.51	92±2.83	91.75±6.01
VNR (%)	57.17±2.8 ^a	82.9±0.14 ^b	86.3±0.71 ^b

(a-b) within a row indicate significant differences ($P < 0.05$). TM, Total motility; PM, progressive motility; VCL: curvilinear velocity. VAP: average path velocity. VSL: straight-line velocity. LIN: linearity. STR: straightness. WOB: wobble. ALH: lateral amplitude of head displacement. BCF: beat cross frequency. N: Normal morphology. VNR: viable non-reacted.