**Dietary L-arginine supplementation improves semen quality and libido of boars under high ambient temperature**

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| --- | --- | --- | --- | --- | --- |
| Item | Treatment2 | | | | SEM3 |
| 0.0% | 0.6% | 0.8% | 1.0% |
| Semen volume (mL) | 215.76 | 215.00 | 229.12 | 215.90 | 4.78 |
| Sperm number (108/mL) | 4.39 | 4.53 | 4.34 | 4.54 | 0.09 |
| Motility (%) | 70.95 | 71.52 | 71.40 | 71.50 | 0.25 |
| Abnormality (%) | 3.19 | 3.19 | 2.94 | 3.15 | 0.09 |
| Total sperm number (×108/ejaculate) | 948.58 | 963.47 | 915.21 | 957.99 | 21.03 |
| Effective sperm number (×108/ejaculate) | 672.86 | 688.69 | 655.28 | 686.10 | 15.73 |

**Table S2** *Semen characteristics of boars by 5 successive test before experiment1*

1 Data are means of 5 pigs per treatment.

2 0.0% = basal diet + 2.0% L-alanine; 0.6% = basal diet + 0.8% L-alanine + 0.6% L-arginine; 0.8% = basal diet + 0.4% L-alanine + 0.8% L-arginine; 1.0% = basal diet + 1.0% L-arginine.

3 SEM = Pooled SEM