**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