**Supplementary Table 2. The concentration of 17-β estradiol and progesterone in the first estrous cycle**

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| **Groups** | **17-β-estradiol(pg/ml)****(Mean ± SD)** | **Progesterone(ng/ml)****(Mean ± SD)** |
| Intact control | 87.76±2.13 | 0.51±0.005 |
| Exp. A (LPA-/ LPA-) | 91.90±3.71 | 0.63±0.07 |
| Exp. D (LPA+/ LPA-) | 117.46±15.32ab | 0.93±0.07ab |

a: indicates significant differences with intact control group (p<0.05); b: indicates significant differences with LPA-/ LPA- group (p<0.05). These assessments were done in five repeats in studied groups.