

**Table 1-** Composition of supplements

| <i>Ingredients, g/kg</i>             | <b>CON<sup>1</sup></b> | <b>CSSO<sup>2</sup></b> |
|--------------------------------------|------------------------|-------------------------|
| Corn                                 | 340                    | 300                     |
| Sorghum                              | 335                    | 275                     |
| Wheat bran                           | 105                    | 120                     |
| Soybean meal                         | 15                     | 30                      |
| Mineral Premix                       | 205                    | 195                     |
| Fat <sup>3</sup>                     | -                      | 80                      |
| <i>Nutritional composition, g/kg</i> |                        |                         |
| Crude protein                        | 250                    | 250                     |
| Total digestible nutrients           | 600                    | 670                     |

<sup>1</sup>Supplement without calcium salts of soybean oil

<sup>2</sup>Supplement with calcium salts of soybean oil

<sup>3</sup> Source of omega 6, composed of calcium salts of soybean oil, citric acid, butylated toluene hydroxide, propylene glycol

**Table 2-** Effects of supplementing or not (CON) calcium salts of soybean oil (CSSO) to Nellore heifers during the second and third trimesters of gestation and offspring sex on offspring growth.

| Variables <sup>1</sup>        | Treatments <sup>2</sup> |       |       |       | SE <sup>3</sup> | <i>P-value</i> |       |            |
|-------------------------------|-------------------------|-------|-------|-------|-----------------|----------------|-------|------------|
|                               | Female                  |       | Male  |       |                 | Diet           | Sex   | Diet × Sex |
|                               | CON                     | CSSO  | CON   | CSSO  |                 |                |       |            |
| BW 0 days, kg <sup>4</sup>    | 29.4                    | 32.2  | 33.7  | 34.9  | 0.94            | 0.03           | <0.01 | 0.36       |
| BW 120 days, kg               | 123                     | 131   | 134   | 137   | 3.52            | 0.05           | 0.01  | 0.51       |
| BW 210 days, kg <sup>4</sup>  | 171                     | 175   | 182   | 187   | 3.61            | 0.17           | <0.01 | 0.85       |
| ADG (0 - 120), kg/days        | 0.784                   | 0.825 | 0.833 | 0.855 | 0.03            | 0.18           | 0.10  | 0.68       |
| ADG (0-210), kg/days          | 0.679                   | 0.683 | 0.713 | 0.730 | 0.02            | 0.43           | 0.01  | 0.66       |
| Rib-eye area, cm <sup>2</sup> | 39.3                    | 41.6  | 41.0  | 43.5  | 1.44            | 0.07           | 0.19  | 0.93       |
| Rib-eye area/100kg            | 21.2                    | 21.5  | 20.4  | 21.3  | 0.64            | 0.33           | 0.36  | 0.62       |
| Ratio                         | 0.451                   | 0.465 | 0.466 | 0.466 | 0.01            | 0.45           | 0.38  | 0.48       |
| Marbling, %                   | 2.22                    | 2.13  | 2.25  | 2.34  | 0.16            | 0.98           | 0.44  | 0.55       |
| SFT, mm                       | 2.10                    | 2.10  | 2.02  | 2.10  | 0.07            | 0.57           | 0.54  | 0.51       |
| SFT/100kg                     | 1.14                    | 1.09  | 1.01  | 1.03  | 0.04            | 0.70           | 0.02  | 0.36       |
| Rump, kg                      | 3.51                    | 3.54  | 3.52  | 3.86  | 0.18            | 0.28           | 0.33  | 0.36       |

<sup>1</sup>Variables: BW-body weight; ADG-average daily gain; SFT-subcutaneous fat thickness

<sup>2</sup>Treatments: CON-Supplement without calcium salts of soybean oil; CSSO-Supplement with calcium salts of soybean oil

<sup>3</sup>Standard error

<sup>4</sup>Weighing on day 0 refers to birth and 210 days to weaning

**Table 3.** Effects of supplementing or not (CON) calcium salts of soybean oil (CSSO) to Nellore heifers during the second and third trimesters of gestation and offspring sex on milk production.

| Variables <sup>1</sup>            | Treatments <sup>2</sup> |      |      |      | SE <sup>3</sup> | <i>P-value</i> |      |            |
|-----------------------------------|-------------------------|------|------|------|-----------------|----------------|------|------------|
|                                   | Female                  |      | Male |      |                 | Diet           | Sex  | Diet × Sex |
|                                   | CON                     | CSSO | CON  | CSSO |                 |                |      |            |
| D30 Corrected milk yield, kg/day  | 5.55                    | 6.00 | 4.91 | 6.10 | 0.62            | 0.10           | 0.58 | 0.45       |
| D210 Corrected milk yield, kg/day | 3.22                    | 3.20 | 2.89 | 3.13 | 0.22            | 0.57           | 0.34 | 0.54       |

<sup>1</sup>Milk production of heifers corrected for 4% fat at 30 and 210 days of lactation

<sup>2</sup>Treatments: CON-Supplement without calcium salts of soybean oil; CSSO-Supplement with calcium salts of soybean oil

<sup>3</sup>Standard error