**Supplementary Tables.**

**Table S1.** Levels of detection (LOD), levels of quantification (LOQ), and determination coefficients (R2) of HPLC quantified analytes after the calibration process.

|  |  |  |  |
| --- | --- | --- | --- |
| **ANALYTES** | **LOD** | **LOQ** | **R2** |
| **PYRUVIC ACID** | 0,000176 | 0,000535 | 1 |
| **MALIC ACID** | 0,00156 | 0,00474 | 0,9995 |
| **LACTIC ACID** | 0,003 | 0,008 | 0,9991 |
| **α-KETOGLUTARIC ACID** | 1,329E-04 | 0,000402 | 0,9989 |
| **CITRIC ACID** | 1,009E-03 | 0,00306 | 0,9997 |
| **FUMARIC ACID** | 1,478E-05 | 0,0000447 | 1 |
| **SUCCINIC ACID** | 0,00287 | 0,00870 | 1 |

**Table S2.** General characteristics of animals in control (C) and endotoxin (E) groups.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Animal No** | **C1** | **C2** | **C3** |  | **E1** | **E2** | **E3** | **E4** | **E5** | **E6** | **E7** | **E8** | **E9** |
| **Sex** | F | F | F |  | F | F | F | F | F | F | F | F | F |
| **Weight (Kg)** | 48 | 50 | 48 |  | 50 | 52 | 52 | 49 | 48 | 47 | 50 | 50 | 50 |
| **Corporal surface area (m2)** | 0.93 | 0.96 | 0.93 |  | 0.96 | 0.98 | 0.98 | 0.94 | 0.93 | 0.92 | 0.96 | 0.96 | 0.96 |
| **Age (months)** | 5 | 4 | 4 |  | 5 | 5 | 5 | 4.5 | 5 | 4 | 5 | 4 | 4 |
| **Time to shock (min)** |  |  |  |  | 96 | 129 | 95 | 160 | 270 | 82 | 133 | 360 | 200 |
| **LPS dose (μg)** |  |  |  |  | 1429 | 2052 | 1469 | 2435 | 4128 | 1126 | 2039 | 5000 | 3145 |
| **Median volume of fluid administration previous to T0 (mL).** | 964 | 970 | 1320 |  | 1466 | 1480 | 1485 | 1467 | 1467 | 1461 | 1670 | 1470 | 1470 |
| **Median volume of fluid administration from T0 to T6 (mL).** | 2472 | 2560 | 2472 |  | 2560 | 2648 | 2648 | 2516 | 2472 | 2428 | 2560 | 2560 | 2560 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **CITRATE μM/L** | | | **KETOGLUTARATE μM/L** | | | **SUCCINATE μM/L** | | | **FUMARATE μM/L** | | | **MALATE μM/L** | | |
| **Animal Nº** | | **T0** | **T3** | **T6** | **T0** | **T3** | **T6** | **T0** | **T3** | **T6** | **T0** | **T3** | **T6** | **T0** | **T3** | **T6** |
| Endotoxin 1 | | 316,67 | 403,33 | 500 | 83,33 | 103,33 | 70 | 76,67 | 786,67 | 1296,67 | 2,1 | 4,97 | 4,22 | 1,36 | 1,39 | 5,54 |
| Endotoxin 2 | | 190 | 290 | 303,33 | 30 | 50 | 53,33 | 303,33 | 1270 | 90 | 5,13 | 4,3 | 1,7 | 0,27 | 0,29 | 0,41 |
| Endotoxin 3 | | 230 | 106,67 | 913,33 | 40 | 43,33 | 110 | 400 | 403,33 | 1063,33 | 3,04 | 2,3 | 65,9 | 0,25 | 0,45 | 0,52 |
| Endotoxin 4 | | 10 | 110 | 453.1 | 40 | 30 | 33,33 | 370 | 482,5 | 582,5 | 5,27 | 10,47 | 9,45 | 0,43 | 0,03 | 0,74 |
| Endotoxin 5 | | 156,67 | 500 | 540 | 57,5 | 62,5 | 70 | 513,33 | 586,67 | 842,5 | 3,73 | 6,17 | 4,1 | 0,87 | 0,55 | 0,67 |
| Endotoxin 6 | | 313,33 | 186,67 | 546,33 | 40 | 80 | 110 | 7,23 | 646,67 | 630 | 3,67 | 52,5 | 12,67 | 0,4 | 1,34 | 3,85 |
| Endotoxin 7 | | 46,67 | 3686,67 | 430 | 220 | 46,67 | 63,33 | 716,67 | 263,33 | 700 | 2,8 | 4,4 | 7,43 | 0,81 | 0,95 | 0,82 |
| Endotoxin 8 | | 933,33 | 320 | 416 | 63,33 | 86,67 | 120 | 350 | 693,33 | 783,33 | 42,97 | 6,89 | 7,03 | 1,14 | 1,62 | 1,29 |
| Endotoxin 9 | | 170 | 233,33 | 333,33 | 83,33 | 80 | 76,67 | 406,67 | 693,33 | 646,67 | 4,93 | 4,2 | 4,43 | 0,83 | 1,51 | 1,07 |
| ***MEDIAN*** | | *190* | *290* | *453,1* | *57,5* | *62,5* | *70* | *370* | *646,67* | *700* | *3,73* | *4,97* | *7,03* | *0,81* | *0,95* | *0,82* |
| ***RIQ1*** | | *156,67* | *186,66* | *416* | *40* | *46,67* | *63,33* | *303,33* | *482,5* | *630* | *2,04* | *4,3* | *4,22* | *0,4* | *0,45* | *0,67* |
| ***RIQ3*** | | *313,33* | *403,33* | *540* | *83,33* | *80* | *110* | *406,67* | *693,33* | *842,5* | *5,13* | *6,88* | *9,45* | *0,87* | *1,39* | *1,29* |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Control 1 | | 10 | 40 | 75 | 53,33 | 42,5 | 70 | 607 | 312,5 | 323,3 | 2,85 | 0,79 | 3,18 | 1,56 | 1,16 | 1,2 |
| Control 2 | | 215 | 446,67 | 180 | 46,67 | 60 | 83,33 | 1210 | 883,33 | 160 | 6,07 | 7,6 | 4,93 | 0,55 | 0,71 | 0,56 |
| Control 3 | | 296,67 | 33,33 | 286,67 | 413,33 | 190 | 173,33 | 173,33 | 156,6 | 156,67 | 3,67 | 4,23 | 8,33 | 1,84 | 1,69 | 1,79 |
| Control 4 | | 296,67 | 213,33 | 200 | 213,33 | 236,67 | 266,67 | 440 | 516,67 | 453,33 | 4,19 | 63,53 | 66,6 | 0,61 | 0,63 | 0,65 |
| ***MEDIAN*** | | *255,835* | *126,665* | *190* | *133,33* | *125* | *128,33* | *523,5* | *414,585* | *241,65* | *3,93* | *5,915* | *6,63* | *1,085* | *0,935* | *0,925* |
| ***RIQ1*** | | 163,75 | 38,33 | 153,75 | 51,66 | 55,62 | 80 | 306,67 | 273,54 | 159,17 | 3,46 | 3,37 | 4,49 | 0,6 | 0,69 | 0,63 |
| ***RIQ3*** | | 296,67 | 271,67 | 221,67 | 263,33 | 201,66 | 196,67 | 825 | 608,33 | 355,81 | 4,66 | 21,58 | 22,9 | 1,63 | 1,29 | 1,35 |

**Table S3.** Individual data of TCA cycle intermediates obtained by HPLC analysis.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **PYRUVATE mM/L** | | | **LACTATE**  **mM/L** | | | **L/P RATIO** | | |
| **Animal Nº** | | **T0** | **T3** | **T6** | **T0** | **T3** | **T6** | **T0** | **T3** | **T6** |
| Endotoxin 1 | | 1,45 | 1,5 | 1,24 | 3,49 | 5,7 | 16,32 | 2,41 | 3,79 | 13,12 |
| Endotoxin 2 | | 1,07 | 0,94 | 0,99 | 2,88 | 6,57 | 3,4 | 2,69 | 6,99 | 3,43 |
| Endotoxin 3 | | 0,2 | 0,36 | 0,6 | 2,85 | 5,15 | 11,78 | 14,27 | 14,3 | 19,63 |
| Endotoxin 4 | | 1,08 | 0,77 | 2,25 | 2,11 | 8,36 | 16,11 | 1,96 | 10,9 | 7,16 |
| Endotoxin 5 | | 1,14 | 1,25 | 1,35 | 1,66 | 2,56 | 4,95 | 1,45 | 2,05 | 3,68 |
| Endotoxin 6 | | 0,88 | 1,42 | 1,79 | 3,73 | 9,7 | 15,73 | 4,22 | 6,83 | 8,8 |
| Endotoxin 7 | | 0,55 | 1,31 | 1,79 | 2,51 | 7,31 | 7,39 | 4,53 | 5,57 | 4,14 |
| Endotoxin 8 | | 1,29 | 1,46 | 1,94 | 3,29 | 4,56 | 6,56 | 2,56 | 3,12 | 3,38 |
| Endotoxin 9 | | 2,06 | 2,09 | 2,6 | 4,02 | 7,12 | 10,36 | 1,95 | 3,41 | 3,99 |
| ***MEDIAN*** | | *1,08* | *1,31* | *1,79* | *2,88* | *6,57* | *10,36* | *2,56* | *5,57* | *4,14* |
| ***RIQ1*** | | *0,88* | *0,94* | *1,24* | *2,51* | *5,15* | *6,56* | *1,96* | *3,41* | *3,68* |
| ***RIQ3*** | | *1,29* | *1,46* | *1,94* | *3,49* | *7,31* | *15,73* | *4,22* | *6,99* | *8,80* |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Control 1 | | 0,68 | 0,44 | 0,68 | 3,01 | 2,13 | 1,17 | 4,43 | 4,88 | 1,72 |
| Control 2 | | 1,21 | 1,6 | 1,25 | 2,36 | 1,2 | 2,42 | 1,95 | 0,75 | 1,93 |
| Control 3 | | 0,55 | 0,54 | 0,49 | 5,49 | 8,53 | 3,52 | 9,93 | 15,71 | 7,18 |
| Control 4 | | 1,43 | 1,39 | 1,39 | 1,36 | 1,83 | 1,38 | 0,95 | 1,32 | 0,99 |
| ***MEDIAN*** | | *0,94* | *0,97* | *0,97* | *2,68* | *1,98* | *1,9* | *3,19* | *3,1* | *1,83* |
| ***RIQ1*** | | 0,65 | 0,52 | 0,63 | 2,11 | 1,67 | 1,33 | 1,72 | 1,17 | 1,54 |
| ***RIQ3*** | | 1,26 | 1,44 | 1,29 | 3,63 | 3,73 | 2,7 | 5,8 | 7,58 | 3,24 |

**Table S4.** Individual data of lactate, pyruvate and L/P ratio obtained by HPLC analysis.