Supplementary Table 1. Primer list

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene symbol** | **Description** | **Accession No.** | **Forward (5'->3')** | **Reverse (5'->3')** | **Product length** |
| **pro-inflammatory** | | | | | |
| *TNF-α* | Tumor necrosis factor alpha | NM\_214022 | TCTCCTTCCTCCTGGTCGCA | TCCCTCGGCTTTGACATTGG | 191 |
| *IL1B1* | Interleukin-1 beta1 | NM\_214055 | CCGAAGCTGACAGAAGGGGA | AGTGGATGGGGCCTGAGGAT | 174 |
| *IL-6* | Interleukin-6 | NM\_214399 | AGCCCACCAGGAACGAAAGA | AGCCATCACCAGAAGCAGCC | 119 |
| *IL-8* | Interleukin-8 | NM\_213867 | GGCTGTTGCCTTCTTGGCAG | TTTGGGGTGGAAAGGTGTGG | 127 |
| *IFNγ* | Interferon gamma | NM\_213948 | GGCCATTCAAAGGAGCATGG | GATGGCTTTGCGCTGGATCT | 139 |
| *TLR4* | Toll-like receptor 4 | NM\_001113039 | TGGTCAGCCTCCAAACCTTGA | GGAATGAAATGCCCTCTGGGA | 146 |
| *NFκB* | Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 | NM\_001048232 | GACAACATCTCCTTGGCGGG | TCTGCTCCTGCTGCTTTGAGG | 146 |
| **anti-inflammatory** | | | | | |
| *IL-4* | Interleukin-4 | NM\_214123 | TCCACGGACACAAGTGCGAC | TGTTTGCCATGCTGCTCAGG | 243 |
| *IL-10* | Interleukin-10 | NM\_214041 | CATCCACTTCCCAACCAGCC | CTCCCCATCACTCTCTGCCTTC | 220 |
| **Housekeeping** | | | | | |
| *GAPDH* | Glyceraldehyde-3-phosphate dehydrogenase | NM\_001206359 | AATGGGGTGATGCTGGTGCT | GGCAGAAGGGGCAGAGATGA | 122 |

Supplemental table 2. The effects of the *L. acidophilus* treatment on cortisol, IgA, IgM, and IgG in serum after after saline or LPS challenge (*n*=10) 1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | T1 | T2 | T3 | T4 | SEM | P-value |
| Cortisol, ug/dL |  |  |  |  |  |  |
| 0h | 4.12 | 4.67 | 4.63 | 4.64 | 0.49 | 0.614 |
| 2h | 10.67 | 7.87 | 12.38 | 9.65 | 1.73 | 0.983 |
| 4h | 11.31 | 13.51 | 12.04 | 11.92 | 0.54 | 0.098 |
| 6h | 7.40 | 6.71 | 8.28 | 6.85 | 0.39 | 0.398 |
| 12h | 7.60 | 7.27 | 7.32 | 6.79 | 0.28 | 0.742 |
|  |  |  |  |  |  |  |
| IgA, mg/dL |  |  |  |  |  |  |
| 0h | 45.30 | 43.80 | 44.00 | 46.70 | 0.24 | 1.165 |
| 2h | 45.60 | 44.10 | 45.00 | 45.60 | 0.84 | 0.269 |
| 4h | 43.90 | 45.30 | 44.90 | 44.50 | 0.56 | 0.179 |
| 6h | 43.20 | 42.60 | 41.90 | 43.20 | 1.62 | 0.601 |
| 12h | 42.60 | 44.40 | 45.20 | 42.90 | 0.18 | 0.238 |
|  |  |  |  |  |  |  |
| IgM, mg/dL |  |  |  |  |  |  |
| 0h | 22.90 | 23.90 | 26.40 | 27.00 | 0.72 | 0.257 |
| 2h | 27.00 | 26.30 | 29.00 | 26.90 | 0.81 | 0.429 |
| 4h | 24.70 | 25.10 | 28.90 | 25.60 | 1.97 | 0.399 |
| 6h | 15.50 | 16.00 | 15.00 | 18.30 | 1.01 | 0.239 |
| 12h | 15.40 | 15.50 | 16.00 | 17.30 | 0.80 | 0.513 |
|  |  |  |  |  |  |  |
| IgG, mg/dL |  |  |  |  |  |  |
| 0h | 219.60 | 214.10 | 206.90 | 214.80 | 4.15 | 0.182 |
| 2h | 219.50 | 218.90 | 222.78 | 242.90 | 4.01 | 0.061 |
| 4h | 211.40 | 214.80 | 224.92 | 225.73 | 4.14 | 0.770 |
| 6h | 198.10 | 211.30 | 220.92 | 211.10 | 5.78 | 0.117 |
| 12h | 191.70 | 208.50 | 164.25 | 215.18 | 23.69 | 0.511 |

1Experimental treatments were T1) control diet + Saline challenge; T2) control diet with 0.1% L. acidophilus + Saline challenge ; T3) control diet + LPS challenge; T4) control diet with 0.1% L. acidophilus + LPS challenge.

a,bmeans with different superscripts within a row indicate significant differences between groups (P<0.05)