|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the gene** | **Name of the primer** | **Sequence (5’ to 3’)** | **Amplicon length (bp)** |
| COX-2 | COX-2 F.PCOX-2 R.P |  5’ GCTGTACAAGCAGTGGCAAAG 3’ 5’ GCGTTTGCGGTACTCATTGAGA 3’ | 81 |
| TLR-2 | TLR-2 F.PTLR-2 R.P |  5’ AAGAGGAAGCCCAAGAAAGC 3’ 5’ CGATGGAATCGATGATGTTG 3’ | 200 |
| TLR-4 | TLR-4 F.PTLR-4 R.P |  5’ ACCTGGCTGGTTTACACGTC 3’ 5’ CTGCCAGAGACATTGCAGAA 3’ | 201 |
| GAPDH | GAPDH F.PGAPDH R.P |  5’ CTCATGACCACAGTCCATGC 3’ 5’ CACATTGGGGGTAGGAACAC 3’ | 200 |

**Table 1. Primer sequences of target genes (COX-2, TLR-2 and TLR-4) and reference gene (GAPDH)**

**Table 2. Serum antibodies and cytokine levels in negative control group**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Parameter** | **Amount** |
|  | **Antibodies**  | **Mean** | **SEM** | **Units** |
| 1. | Total IgE | 37.70 | 1.97 | (ng/ml) |
| 2. | Total IgG | 0.35  | 0.01 | (mg/ml) |
| 3. | Total IgG2a | 2339.13  | 503 | (μg/ml) |
| 4. | IgE/IgG2a | 0.016 | 0.003 |  |
| 5. | Total sIgA | 30.58  | 1.72 | (μg/ml) |
|  | **Cytokines**  |  |  |  |
| 6. | IFN-γ | 84.65  | 1.7 | (pg/mg protein) |
| 7. | IL-4 | 39.46  | 3.3 | (pg/mg protein) |
| 8. | IFN-γ/IL-4 | 2.14 | 0.1 |  |
| 9. | IL-10 | 78.68  | 12.4 | (pg/mg protein) |
| 10. | MCP-1 | 45.1 | 2.9 | (pg/ml) |