

## TABLES

**Table 1. Amino acid composition of Naticol®Gut (Fish collagen peptides, Weishardt).**

<b>Amino acid</b>	<b>Percentage of amino acid</b>
Glycine	20.9
Proline	12.6
Glutamic acid	11.6
Hydroxyproline	10.5
Arginine	8.9
Alanine	8.3
Aspartic acid	5.1
Lysine	3.5
Serine	3.5
Threonine	2.7
Leucine	2.6
Phenylalanine	2.3
Valine	2.0
Isoleucine	1.5
Hydroxylysine	1.5
Histidine	1.3
Methionine	0.8
Tyrosine	0.4
Cysteine+cystine	0.03
Tryptophane	Traces

**Table 2. Murine primer sequences used in qPCR assay**

<b>Gene</b>	<b>5'- 3'Sequences</b>
<i>Alox15</i>	Sense CAG-GCA-TCG-GAG-TAC-AGG-TT
	Antisense GAT-TGT-GCC-ATC-CTT-CCA-GT
<i>Arginase1</i>	Sense CGT-GTA-CAT-TGG-CTT-GCG-AG
	Antisense TCG-GCC-TTT-TCT-TCC-TTC-CC
<i>Ccl2</i>	Sense AGG-TCC-CTG-TCA-TGC-TTC-TG
	Antisense TCT-GGA-CCC-ATT-CCT-TCT-TG
<i>Ccl22</i>	Sense GTC-CTA-GGG-AGG-AGG-ACC-TG
	Antisense GAA-GGG-GGA-TAA-GCT-GGA-AG
<i>Ccr2</i>	Sense AGA-GAG-CTG-CAG-CAA-AAA-GG
	Antisense GGA-AAG-AGG-CAG-TTG-CAA-AG
<i>Fgcr3a</i>	Sense TGT-TTG-CTT-TTG-CAG-ACA-GG
	Antisense TGC-TCC-ATT-TGA-CAC-CGA-TA
<i>Cd209</i>	Sense GGC-ACG-AAA-GTG-AGG-CAC-AT
	Antisense AGC-TCA-TCT-CCG-CTC-CTA-CCT
<i>Fgcr2a</i>	Sense AGT-CCA-AGC-CTG-TCA-CCA-TC
	Antisense CAG-TTT-TGG-CAG-CTT-CTT-CC
<i>Cxcl9</i>	Sense CTG-GGG-TTA-AAG-GTG-TGT-GC
	Antisense CTC-GTG-GCG-CTG-AAG-ATG-TC
<i>Cxcl10</i>	Sense CTG-CAG-GAT-GAT-GGT-CAA-GC
	Antisense CTG-AGC-TAG-GGA-GGA-CAA-GG
<i>Gapdh</i>	Sense AAC-TTT-GGC-ATT-GTG-GAA-GG
	Antisense ACA-CAT-TGG-GGG-TAG-GAA-CA
<i>Il1<math>\beta</math></i>	Sense CAA-CCA-ACA-AGT-GAT-ATT-CTC-GAT-G
	Antisense GAT-CCA-CAC-TCT-CCA-GCT-GCA
<i>Il10</i>	Sense CCA-AGC-CTT-ATC-GGA-AAT-GA
	Antisense TTT-TCA-CAG-GGG-AGA-AAT-CG
<i>Il6</i>	Sense GAG-GAT-ACC-ACT-CCC-AAC-AGA-CC
	Antisense AAG-TGC-ATC-ATC-GTT-GTT-CAT-ACA
<i>Inos</i>	Sense TCC-TGG-ACA-TTA-CGA-CCC-CT
	Antisense ACA-AGG-CCT-CCA-ATC-TCT-GC
<i>Mrc1</i>	Sense ATG-CCA-AGT-GGG-AAA-ATC-TG
	Antisense TGT-AGC-AGT-GGC-CTG-CAT-AG
<i>Ncf1</i>	Sense AGT-GAT-GCG-GAG-ACT-TTG-CT
	Antisense ACC-GGA-GTT-ACA-GGC-AAA-TG
<i>Pgds</i>	Sense AGT-GGT-GGA-GGC-CAA-CTA-TG
	Antisense CCA-GCC-CTC-TGA-CTG-ACT-TC
<i>Pges</i>	Sense CCT-AGG-CTT-CAG-CCT-CAC-AC
	Antisense CAG-CCT-ATT-GTT-CAG-CGA-CA
<i>Ptgs2</i>	Sense AGA-AGG-AAA-TGG-CTG-CAG-AA
	Antisense GCT-CGG-CTT-CCA-GTA-TTG-AG
<i>Tgf-<math>\beta</math></i>	Sense AGG-TTG-GCA-TTC-CAC-TTC-AC
	Antisense AGG-GGC-CTC-TAA-GAG-CAG-TC
<i>Thr-2</i>	Sense TGC-TTT-CCT-GCT-GGA-GAT-TT
	Antisense TGT-AAC-GCA-ACA-GCT-TCA-GG
<i>Tnf-<math>\alpha</math></i>	Sense AGC-CCC-CAG-TCT-GTA-TCC-TT
	Antisense CTC-CCT-TTG-CAG-AAC-TCA-GG

**Table 3. Human primer sequences used in qPCR assay**

<b>Gene</b>	<b>Sequences 5' - 3'</b>
<i>18SrRNA</i>	Sense AAA-CGG-CTACCA-CAT-CCA-AG
	Antisense CCT-CCA-ATG-GAT-CCT-CGT-TA
<i>Cd209</i>	Sense TGG-CTA-TAC-CTG-GGG-ACT-TG
	Antisense AGG-AAT-CCA-AGG-GGC-TAA-GA
<i>Ccr2</i>	Sense TGG-CTG-TGT-TTG-CTT-CTG-TC
	Antisense CCC-GAG-TAG-CAG-ATG-ACC-AT
<i>Fcgr3a</i>	Sense TAC-AGC-GTG-GAG-AAG-GA
	Antisense GCA-CCT-GTA-CTC-TCC-ACT
<i>Mrc1</i>	Sense GGC-GGT-GAC-CTC-ACA-AGT-AT
	Antisense ACG-AAG-CCA-TTT-GGT-AAA-CG
<i>Ptgs2</i>	Sense CAT-GTG-AGT-CCC-TGT-GAT-GG
	Antisense GAC-TGC-AGC-AAA-GAC-ATC

**Table 4. Sequences used in microbiota PCR assay**

<b>Gene/ Phyla/Family/Genus/Specie</b>	<b>Sequences 5' - 3'</b>
<i>B-actin</i>	Sense GGA-CTT-CGA-GCA-AGA-GAT-GG
	Antisense AGC-ACT-GTG-TTG-GCG-TAC-AG
Total bacteria	Sense ACT-CCT-ACG-GGA-GGC-AGC-AG
	Antisense ATT-ACC-GCG-GCT-GCT-GG
Bacteroidetes	Sense GGA-RCA-TGT-GGT-TTA-ATT-CGA-TGA-T
	Antisense AGC-TGA-CGA-CAA-CCA-TGC-AG
Enterobacteria	Sense GTG-CCA-GCM-GCC-GCG-GTA-A
	Antisense GCC-TCA-AGG-GCA-CAA-CCT-CCA-AG
<i>E. coli</i>	Sense GTT-AAT-ACC-TTT-GCT-CAT-TGA
	Antisense ACC-AGG-GTA-TCT-AAT-CCT-GTT
Firmicutes	Sense AGC-TGA-CGA-CAA-CCA-TGC-AC
	Antisense GGA-GYA-TGT-GGT-TTA-ATT-CGA-AGC-A
<i>L. murinus</i>	Sense TCG-AAC-GAA-ACT-TCT-TTA-TCA-CC
	Antisense CGT-TCG-CCA-CTC-AAC-TCT-TT
<i>F.prausnitzii</i>	Sense GAT-GGC-CTC-GCG-TCC-GAT-TAG
	Antisense CCG-AAG-ACC-TTC-TTC-CTC-C
Fungi	Sense CTT-GGT-CAT-TTA-GAG-GAA-GTA-A
	Antisense GCT-GCG-TTC-TTC-ATC-GAT-GC
<i>Candida spp.</i>	Sense TCG-CAT-CGA-TGA-AGA-ACG-CAG-C
	Antisense TCT-TTT-CCT-CCG-CTT-ATT-GAT-ATG-C
<i>C. albicans</i>	Sense ATT-GCT-TGC-GGC-GGT-AAC-GTC-C
	Antisense TCT-TTT-CCT-CCG-CTT-ATT-GAT-ATG-C
<i>S. cerevisiae</i>	Sense AGG-AGT-GCG-GTT-CTT-IG
	Antisense TAC-TTA-CCG-AGG-CAA-GCT-ACA

**Table 5. Strain names and references of the *in vitro* cultivated microorganisms**

<b>Strain name</b>	<b>Number</b>
<i>Candida albicans</i>	ATCC-14053
<i>Saccharomyces cerevisiae</i>	DSM-70449
<i>Escherichia coli</i>	DSM-30083
<i>Enterococcus faecalis</i>	DSM-20478
<i>Lactobacillus murinus</i>	DSM-20452