

Supplementary Table S1. Descriptive statistics for fatty acids composition (*) and health index in pork *longissimus lumborum* muscle.

| Variable | Mean | SD | Minimum | Maximum |
|---------------------------|-------|-------|---------|---------|
| C14:0 | 1.37 | 0.14 | 1.04 | 1.54 |
| C16:0 | 23.80 | 1.09 | 22.45 | 26.44 |
| C18:0 | 13.23 | 1.49 | 10.66 | 16.04 |
| C20:0 | 0.003 | 0.006 | 0.001 | 0.003 |
| C22:0 | 0.06 | 0.02 | 0.03 | 0.1 |
| Σ SFA ¹ | 39.96 | 2.39 | 36.11 | 44.19 |
| C14:1 | 0.012 | 0.004 | 0.01 | 0.02 |
| C16:1 | 2.51 | 0.86 | 0.03 | 3.98 |
| C17:1 | 0.19 | 0.05 | 0.09 | 0.30 |
| C18:1 ω 9 | 43.93 | 2.09 | 40.65 | 48.17 |
| C20:1 ω 9 | 0.04 | 0.02 | 0.01 | 0.07 |
| Σ MUFA | 48.80 | 2.46 | 45.51 | 53.21 |
| C18:3 ω 3 | 0.47 | 0.11 | 0.33 | 0.64 |
| C20:5 ω 3 | 1.24 | 0.40 | 0.67 | 2.15 |
| C18:2 ω 6 | 2.11 | 1.51 | 6.11 | 10.99 |
| C20:4 ω 6 | 0.66 | 0.07 | 0.57 | 0.77 |
| C18:3 ω 3 | 0.47 | 0.11 | 0.33 | 0.64 |
| Σ ω 3 | 1.71 | 0.38 | 1.09 | 2.55 |
| Σ ω 6 | 0.65 | 0.07 | 0.51 | 0.77 |
| Σ PUFA | 10.76 | 1.77 | 8.39 | 13.70 |
| Total trans | 1.99 | 0.55 | 0.68 | 2.97 |
| H/h | 0.46 | 0.037 | 0.40 | 0.54 |
| IA | 0.56 | 0.04 | 0.49 | 0.68 |
| IT | 0.18 | 0.14 | 0.98 | 1.52 |
| MUFA/SFA | 1.22 | 0.12 | 1.03 | 1.46 |
| PUFA/SFA | 0.27 | 0.05 | 0.9 | 0.35 |
| ω 6/ ω 3 | 0.41 | 0.11 | 0.27 | 0.62 |

*:values are expressed as g/100 g of fresh muscular tissue. SD: Standard Deviation. CV: Coef Sum of Saturated Fatty Acids. ²:Sum of Monounsaturated Fatty Acids. ³:Sum of Polyunsaturated Fatty Acids. H/h=hypercholesterolemic/hypocholesterolemic index: (C14:0+C16:0)/ (C18:1+C18:2+C18:3- C20:5+C22:4+C22:5+C22:6). IA = Atherogenic index: (C12:0 + 4 \times C14:0 + C16:0 / Σ AGMI IT = Thrombogenic index: (C14:0 + C16:0 + C18:0)/[0,5 \times Σ AGMI + 0,5 \times Σ (ω -6) + 3 \times Σ (ω -3)]

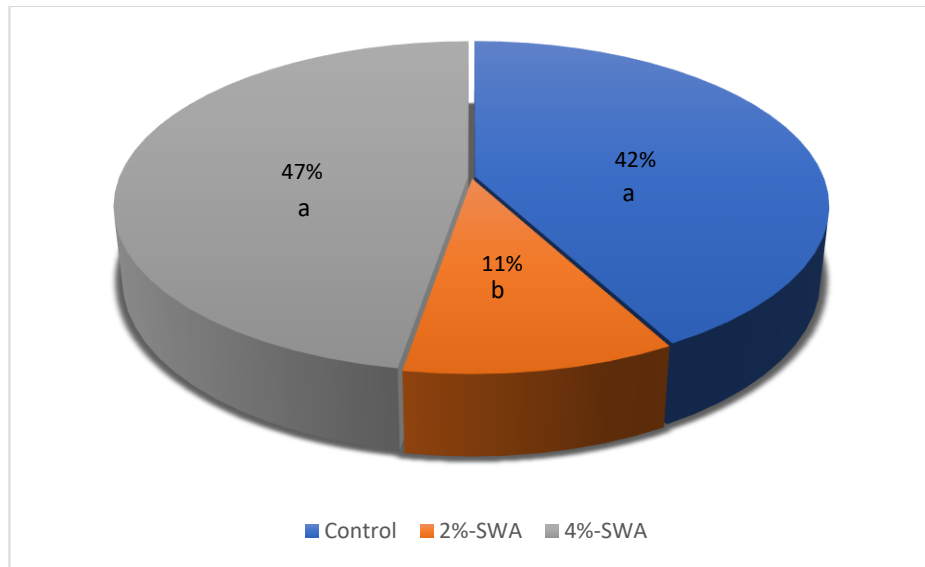


Figure S1. Taste preference percentage by panelists. χ^2 test. Different letters indicate significant different ($P < 0.05$) among group's frequencies.