



Supplementary materials

Table S1. CIELAB colour coordinates (L^* , a^* , b^* , Chromaticity - C^* , tint angle - h and total color variation – ΔE) in crude viscera oil (CVO) extracted from sea bream viscera (SBV) at different temperatures (°C) and reaction time (min). Commercial Cod liver oil (CO) was used as control.

Sample		Parameters				
Temperature	Times	L^*	a^*	b^*	hue angle (h)	chroma (C^*)
40	10	70.12 ± 0.04 ^g	-3.49 ± 0.03 ^e	15.94 ± 0.06 ^c	102.35 ± 0.08 ^g	16.32 ± 0.06 ^c
	30	70.54 ± 0.01 ^h	-3.93 ± 0.03 ^d	14.27 ± 0.01 ^b	105.41 ± 0.09 ⁿ	14.80 ± 0.01 ^b
	60	69.96 ± 0.01 ^g	-4.14 ± 0.01 ^c	17.41 ± 0.02 ^e	103.36 ± 0.04 ^h	17.90 ± 0.01 ^e
60	10	69.27 ± 0.01 ^f	-4.10 ± 0.03 ^c	16.89 ± 0.03 ^d	103.64 ± 0.06 ⁱ	17.38 ± 0.03 ^d
	30	70.81 ± 0.05 ^h	-4.60 ± 0.03 ^b	16.88 ± 0.04 ^d	105.26 ± 0.09 ^m	17.50 ± 0.04 ^d
	60	70.61 ± 0.09 ^h	-5.06 ± 0.01 ^a	19.04 ± 0.01 ^f	104.88 ± 0.03 ^l	19.70 ± 0.01 ^f
80	10	65.42 ± 0.62 ^d	-1.99 ± 0.09 ^g	35.73 ± 0.56 ^h	93.19 ± 0.10 ^e	35.79 ± 0.56 ^h
	30	66.81 ± 0.05 ^e	-3.35 ± 0.33 ^f	32.09 ± 0.05 ^g	95.95 ± 0.06 ^f	32.26 ± 0.05 ^g
	60	61.26 ± 0.01 ^a	2.25 ± 0.01 ^m	46.24 ± 0.03 ⁿ	87.21 ± 0.01 ^a	46.29 ± 0.02 ⁿ
90	10	64.48 ± 0.01 ^c	-0.72 ± 0.01 ^h	38.09 ± 0.02 ⁱ	91.08 ± 0.02 ^d	38.10 ± 0.02 ⁱ
	30	64.29 ± 0.02 ^{bc}	0.04 ± 0.01 ^l	44.45 ± 0.01 ^l	89.95 ± 0.01 ^b	44.45 ± 0.01 ^l
	60	64.08 ± 0.05 ^b	-0.58 ± 0.02 ⁱ	45.39 ± 0.02 ^m	90.74 ± 0.03 ^c	45.39 ± 0.02 ^m
CO		87.86 ± 0.19 ⁱ	-3.32 ± 0.01 ^f	9.81 ± 0.01 ^a	108.69 ± 0.08 ^o	10.36 ± 0.01 ^a

Different superscript letters in the same column indicate significant differences (a, b, c...: P < 0.05). The data are reported as mean ± standard deviation (n=12).



Figura S1. Crude viscera oils (CVO) extracted from sea bream viscera (SBV) at different temperatures. (40°C, 60°C and 80°C)

Table S2. CIELAB colour coordinates (L^* , a^* , b^* , Chromaticity - C^* , tint angle - h and total color variation – ΔE) in crude viscera oil (CVO) and refined viscera oil (RVO). Commercial Cod liver oil (CO) was used as control

Sample		Parameters				
		L^*	a^*	b^*	hue angle (h)	chroma (C^*)
CVO 60°C		85.50±0.13 ^c	-4.15±0.01 ^a	18.83±0.03 ^c	102.44±0.05 ^d	19.28±0.03 ^c
RVO 60°C		86.68±0.19 ^d	-3.68±0.02 ^b	17.64±0.03 ^b	101.79±0.04 ^c	18.02±0.03 ^b
CVO 80°C		80.83±0.01 ^a	-1.10±0.02 ^d	38.75±0.02 ^e	91.63±0.02 ^a	38.76±0.02 ^e

RVO 80°C	82.48±0.94 ^b	-2.49±0.06 ^c	32.91±0.68 ^d	94.33±0.05 ^b	33.01±0.68 ^d
CO	87.86±0.19 ^e	3.26±0.03 ^e	10.49±0.02 ^a	107.25±0.15 ^e	10.98±0.03 ^a

Different superscript letters in the same column indicate significant differences (a, b, c...: P < 0.05). The data are reported as mean ± standard deviation (n=12).