

802 **Table 4.** Flesh concentrations (ng TEQ/kg wet weight) of dioxin and DL-PCB congeners in salmon at start of trial and after feeding northern
 803 fish oil, decontaminated northern fish oil and southern fish oil, rapeseed oil and soybean oil diets for 11 weeks.

804	Congener/Diet	Initial	cNFO	deNFO	SFO/RO/SO
805	1234678-HpCDD	nd	nd	nd	nd
806	123478-HxCDD	0.002 ± 0.001	0.004 ± 0.002	0.002 ± 0.001	0.002 ± 0.001
807	123678-HxCDD	0.003 ± 0.002	0.008 ± 0.004	0.002 ± 0.001	0.002 ± 0.001
808	12378-PeCDD	0.034 ± 0.009 ^{ab}	0.363 ± 0.091 ^a	0.013 ± 0.004 ^b	0.030 ± 0.009 ^b
809	123789-HxCDD	0.002 ± 0.001	0.004 ± 0.002	0.003 ± 0.002	0.004 ± 0.002
810	2378-TCDD	0.023 ± 0.009 ^b	0.191 ± 0.016 ^a	0.013 ± 0.004 ^b	0.015 ± 0.007 ^b
811	Sum PCDD	0.065 ± 0.021^b	0.570 ± 0.086^a	0.030 ± 0.014^b	0.053 ± 0.018^b
812					
813	1234678-HpCDF	nd	nd	nd	nd
814	123478-HxCDF	0.001 ± 0.000 ^b	0.006 ± 0.003 ^a	0.001 ± 0.000 ^b	0.002 ± 0.001 ^b
815	1234789-HxCDF	nd	nd	nd	nd
816	123678-HxCDF	0.001 ± 0.000	0.006 ± 0.005	0.001 ± 0.000	0.002 ± 0.001
817	12378-PeCDF	0.003 ± 0.001 ^b	0.025 ± 0.013 ^a	0.002 ± 0.001 ^b	0.002 ± 0.001 ^b
818	123789-HxCDF	0.002 ± 0.001	0.003 ± 0.002	0.001 ± 0.000	0.002 ± 0.001
819	234678-HxCDF	0.002 ± 0.001 ^b	0.010 ± 0.003 ^a	0.001 ± 0.000 ^b	0.001 ± 0.000 ^b
820	23478-PeCDF	0.053 ± 0.014 ^b	1.017 ± 0.267 ^a	0.018 ± 0.001 ^b	0.026 ± 0.008 ^b
821	2378-TCDF	0.060 ± 0.018 ^b	0.420 ± 0.016 ^a	0.011 ± 0.003 ^c	0.013 ± 0.001 ^c
822	Sum PCDF	0.121 ± 0.027^b	1.483 ± 0.315^a	0.035 ± 0.006^b	0.046 ± 0.012^b
823					
824	PCB 105	0.035 ± 0.022 ^b	0.214 ± 0.033 ^a	0.015 ± 0.005 ^b	0.013 ± 0.002 ^b
825	PCB 114	0.007 ± 0.003 ^b	0.046 ± 0.007 ^a	0.003 ± 0.001 ^b	0.002 ± 0.001 ^b
826	PCB 118	0.079 ± 0.034 ^b	0.471 ± 0.040 ^a	0.033 ± 0.011 ^b	0.028 ± 0.002 ^b
827	PCB 123	0.001 ± 0.000 ^b	0.008 ± 0.001 ^a	nd	0.001 ± 0.001 ^b
828	PCB 156	0.047 ± 0.020 ^b	0.355 ± 0.035 ^a	0.031 ± 0.007 ^b	0.017 ± 0.002 ^b
829	PCB 157	0.014 ± 0.008 ^b	0.091 ± 0.010 ^a	0.011 ± 0.004 ^b	0.004 ± 0.001 ^b
830	PCB 167	nd	0.004 ± 0.001 ^a	nd	nd
831	PCB 189	0.001 ± 0.000 ^b	0.006 ± 0.001 ^a	0.002 ± 0.001 ^b	nd
832	Sum mono-				
833	ortho PCB	0.184 ± 0.086^b	1.195 ± 0.106^a	0.096 ± 0.027^b	0.066 ± 0.005^b

834					
835	PCB 77	0.001 ± 0.001 ^b	0.014 ± 0.002 ^a	nd	0.002 ± 0.001 ^b
836	PCB 81	nd	0.001 ± 0.000	0.001 ± 0.001	0.001 ± 0.000
837	PCB 126	0.718 ± 0.164 ^b	3.159 ± 0.177 ^a	0.195 ± 0.023 ^c	0.240 ± 0.045 ^c
838	PCB 169	0.008 ± 0.005 ^b	0.056 ± 0.009 ^a	0.002 ± 0.002 ^b	0.003 ± 0.001 ^b
839	Sum non-ortho PCB	0.726 ± 0.166^b	3.213 ± 0.187^a	0.202 ± 0.022^c	0.241 ± 0.042^c
840					
841					
842	Sum dioxins + PCBs	1.061 ± 0.154^b	6.421 ± 0.397^a	0.339 ± 0.044^c	0.406 ± 0.032^c
843					

844

845 cNFO, northern fish oil; deNFO, decontaminated northern fish oil; SFO/RO/SO, southern fish oil, rapeseed oil and soybean oil. Values are mean
846 ± SD, n =3. Values in the same row assigned a different superscript letter are significantly different (P < 0.05).

847 nd = not detected.

848

849

