

**Supplementary Tables**

**Supplementary Table 1.** Microplastic particles from the muscle tissue of cod and corresponding wet traps with detected MP. Polymers (score > 0.65), polymer group, major and minor dimensions and shape classification

Fish ID#	Suppository File	Group	Major dim (µm)	Minor dim (µm)	Shape
1*	70501	PE	80.9	49.2	Fragment
1*	70501	PE	131.8	25.0	Fiber
1	70501	PET	115.1	48.4	Fragment
1	70501	PS	150.0	31.8	Fiber
4	250501	PP	220.3	86.7	Fragment
4	250501	PP	205.3	89.2	Fragment
4	250501	PP	136.8	58.2	Fragment
4	250501	PP	80.6	26.6	Fiber
4	250501	PP	234.9	125.4	Fragment
4	250501	PP	70.4	19.5	Fiber
4	250501	PP	83.4	27.1	Fiber
9	271001	PEST	121.8	23.0	Fiber
9	271001	PE	153.0	28.0	Fiber
9	271001	PE	124.0	36.0	Fiber
10	271002	PA	80.9	49.2	Fragment
11	21101	PE	136.8	69.8	Fragment
11	21101	PE	192.7	103.2	Fragment
11	21101	PP	95.7	74.8	Fragment
11	21101	PS	95.7	58.2	Fragment
17	21107	PEST	60.4	39.6	Fragment
17	21107	PE	60.4	39.6	Fragment
17	21107	PE	75.0	42.4	Fragment
17	21107	PE	80.9	49.2	Fragment
18	21108	PP	60.4	52.7	Fragment
22	21112	PP	258.2	86.3	Fragment
22	21112	PP	60.4	39.6	Fragment
22	21112	PE	60.4	52.7	Fragment
22	21112	PEST	50.0	31.8	Fragment
22	21112	PE	60.4	39.6	Fragment
22	21112	PEST	71.4	30.6	Fragment
22	21112	PEST	111	35.8	Fiber
Wet trap, Fish#1		PE	310.0	38.8	Fiber
Wet trap, Fish #4		PE	123.0	34.0	Fiber

PA: Polyamide; PE: Polyethylene; PES: Polyester; PET: Polyethylene terephthalate; PP: Polypropylene, PS: Polystyrene; \*excluded from the dataset due to observation of the same polymer type in the corresponding wet trap.

**Supplementary Table 2.** List of products used

Enzyme or reagent	Code	Identifier/article number	Supplier
<b>Protease from <i>Bacillus sp.</i></b>	P3111	EC#-232-752-2	Sigma Aldrich
<b>Lipase from <i>Aspergillus oryzae</i></b>	LO777	EC#-232-619-9	Sigma Aldrich
<b>Glycine</b>		CAS#: 56-40-6	Sigma Aldrich
<b>Hydrochloric acid 37%</b>		CAS#:7647-01-0	Sigma Aldrich
<b>Hydrogen peroxide 30%</b>		CAS#:7722-84-1	Sigma Aldrich
<b>Phosphate buffered saline tablets</b>		-	Sigma Aldrich
<b>Sodium dodecyl sulfate (SDS)</b>		CAS#:200-578-6	ACROS ORGANICS
<b>Sodium hydroxide pellets</b>		CAS#:1310-73-2	Sigma Aldrich

**Supplementary Table 3.** Recipe for buffers used

Buffer	Chemical	Amount
<b>Glycine buffer</b>	Glycine	7.5 g
	NaOH pellets	3.7 g
	Milli-Q water	1 L
	HCL (Adjusting pH to 10.0)	
<b>Phosphate buffered saline (PBS)</b>	PBS tablets	2 tablets
	Milli-Q water	1 L
	NaOH (Adjusting pH to 5.0)	