

## Supplementary material 1

**Table S1. Content of microplastics (MPs) in the nauplii of *Artemia* in the experiment on the absorption of PS microspheres from water**

Parameters	Time from start of experiment, h			
	24	48	72	96
2 µm PS microspheres				
% of individuals with MP	100	100	100	100
$\bar{x}$ , items / ng per ind.	18.92 / 0.084	19.54 / 0.087	23.18 / 0.103	20.33 / 0.090
SD, items / ng per ind.	12.77 / 0.057	18.00 / 0.080	13.89 / 0.062	13.53 / 0.060
SE, items / ng per ind.	2.503 / 0.011	2.777 / 0.012	3.031 / 0.013	1.761 / 0.008
lim, items / ng per ind.	1-40 / 0.004- 0.178	2-85 / 0.009- 0.377	4-61 / 0.018- 0.271	6-60 / 0.027- 0.266
10 µm PS microspheres				
% of individuals with MP	15.4	20.7	19.0	25.4
$\bar{x}$ , items / ng per ind.	0.154 / 0.085	0.207 / 0.115	0.190 / 0.106	0.271 / 0.151
SD, items / ng per ind.	0.368 / 0.204	0.407 / 0.226	0.402 / 0.223	0.485 / 0.269
SE, items / ng per ind.	0.072 / 0.040	0.042 / 0.024	0.088 / 0.049	0.063 / 0.035
lim, items / ng per ind.	0-1 / 0-0.555	0-1 / 0-0.555	0-1 / 0-0.555	0-2 / 0-1.110

**Note:** mean – Arithmetical mean, SD – Standard deviation, SE – Standard error, lim – Range of variation

**Table S2. MP content in sterlet larvae in a food chain PS microsphere consumption experiment**

Parameters	Time from start of experiment, h			
	12	24	48	72
2 µm PS microspheres				
% of individuals with MP	100	100	100	100
$\bar{x}$ , items / ng per ind.	218.7 / 0.971	308.0 / 1.368	184.5 / 0.819	75.17 / 0.334
SD, items / ng per ind.	151.5 / 0.673	92.80 / 0.412	190.1 / 0.844	21.79 / 0.097
SE, items / ng per ind.	61.84 / 0.275	37.88 / 0.168	77.61 / 0.345	8.897 / 0.040
lim, items / ng per ind.	30-382 / 0.133-1.696	180-386 / 0.799-1.714	49-548 / 0.218-2.433	55-114 / 0.244-0.506
T <sub>50</sub> , h	31.75			
10 µm PS microspheres				
% of individuals with MP	100	100	100	100
$\bar{x}$ , items / ng per ind.	5.571 / 3.092	4.857 / 2.696	3.857 / 2.141	2.286 / 1.267
SD, items / ng per ind.	2.370 / 1.316	1.952 / 1.083	3.132 / 1.738	1.113 / 0.618
SE, items / ng per ind.	0.896 / 0.497	0.738 / 0.409	1.184 / 0.657	0.421 / 0.233
lim, items / ng per ind.	2-8 / 1.110- 4.440	3-8 / 1.665- 4.440	1-10 / 0.555- 5.550	1-4 / 0.555- 2.220
T <sub>50</sub> , h	45.34			

**Note:** mean – Arithmetical mean, SD – Standard deviation, SE – Standard error, lim – Range of variation, T<sub>50</sub> – Half time for particle excretion

**Table S3. MP content in sterlet larvae in the PS microsphere uptake experiment from water**

Parameters	Time from start of experiment, h			
	12	24	48	72
2 $\mu$ m PS microspheres				
% of individuals with MP	100	100	100	100
$\bar{x}$ , items / ng per ind.	2886 / 12.81	2459 / 10.92	1264 / 5.612	669.7 / 2.973
SD, items / ng per ind.	389.2 / 1.728	583.0 / 2.588	633.5 / 2.813	691.76 / 3.072
SE, items / ng per ind.	158.9 / 0.706	238.0 / 1.057	258.6 / 1.148	282.41 / 1.254
lim, items / ng per ind.	2349-3381 / 10.43-15.01	1708-3258 / 7.584-14.47	714-2378 / 3.170-10.56	60-1690 / 0.266-7.504
T <sub>50</sub> , h	32.98			
10 $\mu$ m PS microspheres				
% of individuals with MP	100	100	100	100
$\bar{x}$ , items / ng per ind.	215.0 / 119.3	151.3 / 83.97	4.000 / 2.220	6.714 / 3.727
SD, items / ng per ind.	93.92 / 52.13	30.59 / 16.98	3.559 / 1.975	5.407 / 3.001
SE, items / ng per ind.	35.50 / 19.70	11.56 / 6.416	1.345 / 0.747	2.044 / 1.134
lim, items / ng per ind.	105-385 / 58.28-213.7	101-185 / 56.06-102.7	1-11 / 0.555- 6.105	2-18 / 1.110- 9.990
T <sub>50</sub> , h	25.11			

**Note:** mean – Arithmetical mean, SD – Standard deviation, SE – Standard error, lim – Range of variation, T<sub>50</sub> – Half time for particle excretion