

SUPPLEMENTARY MATERIAL

Table SI. Individual characteristics of the analyzed microplastics.

N.	Organ	MP number	Length (µm)	Colors	Shapes	Polymers	Chemical additives
1	Placenta	1	2.65	Transparent	Irregular	Polycarbonate	Urea formaldehyde resin, Strontium yellow
		2	11.28	White	Irregular	Polyethylene Vinyl Acetate	Pentaerythritol tetrametacrylate
		3	10.18	White	Irregular	Polyurethane	Sodium Polyacrylate
		4	19.41	Transparent	Irregular	Polypropylene	Methyl Formcel
		5	21.37	Transparent	Irregular	Polyethylene Vinyl Acetate	Poly propyl acrylate
		6	45.93	White	Irregular	Polypropylene	Methyl Formcel
		7	4.09	White	Sphere	Polyethylene Vinyl Acetate	Methyl Formcel
		8	9.16	Transparent	Irregular	Polyurethane	Methyl Formcel
		9	4.56	Transparent	Irregular	Polyurethane	
		10	6.66	White	Sphere	Polyethylene	Methyl Formcel
		11	11.54	Brown	Irregular	Polyurethane	Methyl Formcel
		12	7.76	Transparent	Irregular	Polyamide	Methyl Formcel
		13	27.77	Transparent	Irregular	Polypropylene	Methyl Formcel
		14	4.39	Transparent	Sphere	Polypropylene	Methyl Formcel
		15	5.85	Brown	Irregular	Polystyrene-co-Polyvinyl Chloride	Strontium yellow, Methyl Formcel
	Umbilical Cord	1	38.61	Transparent	Irregular	Polypropylene	
		2	22.31	Transparent	Irregular	Polypropylene and Polyethylene mixture	Dimazine
		3	52.6	Transparent	Irregular	Polyurethane	Methyl formcel
		4	20.42	Transparent	Irregular	Polysulfone	Tetrahydrofurfuryl alcohol
2	Placenta	1	13.57	Yellow	Sphere	Polyester	
		2	18.55	Transparent	Irregular	Polystyrene	
		3	6.9	Transparent	Irregular	Polystyrene	
		4	5.19	Brown	Sphere	Polyamide	
		5	16.29	Transparent	Irregular	Polyester	
	Umbilical Cord	1	16.71	Brown	Irregular	Polyamide	
		2	18.36	Brown	Irregular	Polyamide	
		3	7.99	Transparent	Sphere	Polyamide	
		4	29.1	Brown	Irregular	Polyvinyl acetate	
		5	10.52	Transparent	Irregular	Polyurethane	Lanthanum chloride

Table S1. Continuation.

3	Placenta	1	21.87	Grey	Irregular	Polyethylene	Polymethacrylic acid
		2	12.24	White	Irregular	Polyethylene	Polymethacrylic acid
		3	6.5	White	Sphere	Polyurethane	Aminocyclohexylmethane
		4	13.11	White	Irregular	Polysulfone	Dibutyl Hydrogen Phosphite
		5	6.01	White	Sphere	Polyethylene	Amberlite
		6	11.0	White	Irregular	Polyethylene	Polymethacrylic acid
		7	14.12	White	Irregular	Polyethylene	Amberlite
		8	11.63	Grey	Irregular	Polyethylene	Amberlite
		9	8.11	White	Irregular	Polyethylene	Plurafac A-39 prill
		10	4.65	Transparent	Sphere	Polyethylene with Polyvinyl	
		11	7.23	Grey	Irregular	Polyethylene	Polymethacrylic acid
		12	10.56	White	Irregular	Polysulfone	Hydrogen Phosphite
		13	13.02	Transparent	Irregular	Polyethylene	Strontium yellow, Amberlite
	Umbilical Cord	1	19.82	Transparent	Irregular	Polycarbonate	
		2	22.92	Transparent	Sphere	Polycarbonate	Isopropyl octyl, Polyvinyl pyridine
4	Placenta	1	7.01	Transparent	Irregular	Polyethylene	Epoxycyclohexane
		2	5.89	Grey	Sphere	Polyethylene	Dimethyl Ammonium Chloride
		3	6.54	Transparent	Sphere	Polyethylene Vinyl Acetate	Trisoochyl phosphate
		4	17.92	Transparent	Irregular	Polyethylene	Polycarbonate
		5	2.97	Red	Sphere	Polyurethane	Bromoethyl Methacrylate
		6	6.27	Transparent	Irregular	Polyethylene	Polybutadiene
		7	10.91	White	Sphere	Polyethylene Vinyl Acetate	Polymethacrylic acid
		8	7.54	Transparent	Irregular	Polyethylene	Polymethacrylic acid
		9	4.49	Transparent	Sphere	Polyurethane	Polymethyl Methacrylate
		10	6.63	Transparent	Irregular	Polyethylene	Polymethacrylic acid
		11	6.99	Black	Irregular	Polyurethane	Polymethyl Methacrylate
		12	21.48	White	Irregular	Polyethylene	Dimethyl phosphate
		13	8.81	Grey	Sphere	Polyethylene	PolyButadiene Maleic Anhydride
		14	48.74	White	Irregular	Polyurethane	Dimethyl phosphate
		15	4.94	Grey	Irregular	Polyurethane	Aminocycloherymethane
	Umbilical Cord	1	4.54	Transparent	Irregular	Polyethylene	Butyl Formcel
		2	7.08	Transparent	Irregular	Polypropylene	Triazabicyclo
		3	8.37	Transparent	Irregular	Polyethylene	
		4	11.24	Transparent	Irregular	Polyethylene	Polytetramethylene glycol 2000
		5	10.76	Transparent	Irregular	Polyethylene	Plurafac A-38 prill
		6	18.59	Grey	Irregular	Polypropylene	Plurafac A-38 prill
		7	10.48	Transparent	Irregular	Polyamide	Polybutadiene Maleic Anhydride
		8	18.02	Transparent	Irregular	Polyvinyl chloride	

Table S1. Continuation.

4	Umbilical Cord	9	21.74	White	Irregular	Polypropylene	Ethomeen C/25
		10	9.83	Transparent	Irregular	Polyethylene	Epoxy Resin
		11	22.84	Transparent	Irregular	Polypropylene	
		12	28.45	Transparent	Irregular	Polyethylene and Polyvinyl	
		13	7.78	Transparent	Irregular	Polypropylene	Plurafac A-39 prill
5	Placenta	1	7.3	Transparent	Irregular	Polyethylene	Tetronic 904
		2	11.78	Brown	Irregular	Polypropylene	Polyvinyl Methyl Ethermonobutyl Maleate
		3	7.1	Brown	Irregular	Polypropylene	Polyvinyl Methyl Ethermonobutyl Maleate
		4	18.34	White	Irregular	Polypropylene	Bismuth Vanadate yellow
		5	14.52	White	Irregular	Polypropylene	Bismuth Vanadate yellow
		6	14.24	White	Irregular	Polyvinyl Methyl Ether	Bismuth Vanadate yellow
		7	6.32	Transparent	Irregular	Polypropylene	Tergitol TMN 6
		8	2.22	White	Sphere	Polypropylene	
		9	6.13	Transparent	Irregular	Polymethyl Methacrylate	
		10	13.38	Brown	Irregular	Polyvinyl Methyl Ether	Bismuth Vanadate yellow
		11	9.97	White	Irregular	Polypropylene	Polyethylenimine
		12	15.73	Transparent	Irregular	Polypropylene	Polyvinyl Methyl Ethermonobutyl Maleate
	Umbilical Cord	1	6.34	Transparent	Irregular	Polyethylene	Tetronic 904
		2	6.44	Transparent	Irregular	Polyethylene and Polypropylene	
		3	1.64	Red	Sphere	Polyethylene	Isopropyl octyl
		4	4.49	Transparent	Irregular	Polyethylene	Neodol 91-6
		5	3.97	Transparent	Sphere	Polyethylene	Ethanolamine Sulfite
		6	7.4	Transparent	Irregular	Polyethylene	
		7	7.66	Brown	Irregular	Polyethylene	
		8	7.71	Transparent	Irregular	Polyethylene	TLP 2030
		9	14.38	Transparent	Irregular	Polyethylene and Polyvinyl Phosphate	Desonic LFA 144
6	Placenta	1	6.3	Transparent	Irregular	Polyamide	
		2	10.0	Transparent	Irregular	Polyurethane	
		3	9.7	Transparent	Irregular	Polystyrene	
		4	6.5	Transparent	Sphere	Polyethylene Vinyl Acetate	
		5	11.8	Transparent	Irregular	Polyethylene	
		6	5.02	Transparent	Sphere	Polyethylene Vinyl Acetate	
		7	6.1	Transparent	Sphere	Polyurethane	
		8	10.0	Transparent	Irregular	Polyethylene	
		9	11.6	Transparent	Sphere	Polypropylene	
		10	4.9	Transparent	Irregular	Polyurethane	
		11	3.7	Transparent	Sphere	Polyurethane	
		12	5.9	Transparent	Irregular	Polyurethane	
		13	5.9	Transparent	Sphere	Polyethylene-co-polypropylene	

Table S1. Continuation.

6	Umbilical Cord	1	4.04	Transparent	Irregular	Polyamide	
		2	6.4	Transparent	Irregular	Polyethylene	
		3	8.9	Transparent	Irregular	Polyethylene	
		4	3.7	Transparent	Irregular	Polyamide	
		5	8.5	White	Irregular	Polyethylene Vinyl Acetate	
		6	4.1	Transparent	Irregular	Polyamide	
		7	3.7	Transparent	Irregular	Polyethylene	
		8	6.6	Transparent	Sphere	Polyamide	
		9	12.8	Transparent	Irregular	Polypropylene	
		10	6.6	Transparent	Irregular	Polyurethane	
		11	17.3	Transparent	Irregular	Polyethylene	
		12	9.6	Transparent	Irregular	Polypropylene	
		13	7.04	Transparent	Irregular	Polyamide	
		14	4.6	Transparent	Sphere	Polypropylene	
		15	8.5	Red	Irregular	Polyester	
		16	6.6	Transparent	Irregular	Polyamide	
		17	14.7	Transparent	Irregular	Polyamide	
		18	4.5	Transparent	Irregular	Polyethylene Vinyl Acetate	
		18	7.7	Transparent	Irregular	Polyamide	
		20	8.5	Transparent	Irregular	Polyamide	
		21	6.8	Transparent	Sphere	Polystyrene	
		22	9.6	Transparent	Sphere	Polystyrene	
7	Placenta	1	4.86	Transparent	Sphere	Polyamide	
		2	5.24	Transparent	Irregular	Polyamide	
		3	4.82	Transparent	Sphere	Polyamide	
		4	6.01	Transparent	Irregular	Polyamide	
		5	8.26	Transparent	Irregular	Polyethylene	
		6	11.67	Transparent	Irregular	Polyamide	
		7	27.55	Transparent	Irregular	Polyamide	
		8	14.88	Transparent	Irregular	Polyethylene Vinyl Acetate	
		9	7.93	Transparent	Irregular	Polyurethane	
		10	9.25	Transparent	Irregular	Polyamide	
		11	9.03	Transparent	Sphere	Polyamide	
		12	5.92	Transparent	Irregular	Polyamide	
	Umbilical Cord	1	3.67	Transparent	Sphere	Polyethylene	
		2	5.18	Transparent	Sphere	Polyurethane	
		3	9.42	Transparent	Irregular	Polyamide	Valfor 100 Zeolite
		4	6.01	Transparent	Irregular	Polyethylene Vinyl Acetate	
		5	4.12	Transparent	Irregular	Polyethylene	

Table S1. Continuation.

7	Umbilical Cord	6	5.85	Transparent	Irregular	Polyethylene Vinyl Acetate	
		7	8.46	Transparent	Irregular	Polyethylene	
		8	22.09	Transparent	Irregular	Polyamide	
8	Placenta	1	8.21	Red	Irregular	Polyethylene Vinyl Acetate	
		2	20.94	Transparent	Irregular	Polyethylene Vinyl Acetate	
		3	17.4	Transparent	Irregular	Polyamide	
		4	7.0	Transparent	Irregular	Polyamide	
		5	3.84	Transparent	Sphere	Polyethylene	
		6	6.57	Transparent	Irregular	Polyamide	
		7	10.24	Transparent	Irregular	Polystyrene	
	Umbilical Cord	1	8.16	Transparent	Irregular	Polyurethane	
		2	10.29	Transparent	Irregular	Polyurethane	
		3	17.26	Transparent	Irregular	Polyethylene	
		4	26.64	Transparent	Irregular	Polyethylene	
		5	25.79	Red	Irregular	Polyethylene Vinyl Acetate	
		6	15.49	Transparent	Irregular	Polyethylene Vinyl Acetate	
		7	11.15	Red	Irregular	Polypropylene	
		8	8.5	Transparent	Sphere	Polyamide	
		9	13.14	Transparent	Irregular	Polyamide	Valfor 100 zeolite
		10	16.54	Transparent	Irregular	Polyamide	
		11	12.62	Transparent	Sphere	Polyethylene	
9	Placenta	1	17.55	Transparent	Irregular	Polyurethane	
		2	24.92	Transparent	Irregular	Polyethylene Vinyl Acetate	
		3	4.87	Transparent	Irregular	Polyurethane	
		4	9.34	Transparent	Irregular	Polyurethane	
		5	7.17	Transparent	Irregular	Polyethylene	
		6	5.49	Transparent	Sphere	Polyethylene Vinyl Acetate	
	Umbilical Cord	1	12.38	Transparent	Irregular	Polyethylene	
		2	3.53	Black	Irregular	Polyurethane	
		3	9.33	Transparent	Irregular	Polyamide	
		4	2.32	Transparent	Sphere	Polyamide	
		5	13.51	Transparent	Irregular	Polyethylene	
		6	10.55	Transparent	Irregular	Polyethylene	
		7	3.61	Transparent	Sphere	Polyethylene Vinyl acetate	
		8	21.76	Transparent	Irregular	Polyamide	
		9	5.61	Transparent	Irregular	Polyethylene	
		10	13.56	Transparent	Irregular	Polyethylene vinyl acetate	
		11	14.33	Transparent	Irregular	Polyethylene	
		12	17.82	Transparent	Irregular	Polyethylene-co-polypropylene	

Table S1. Continuation.

9	Umbilical Cord	13	8.7	Transparent	Irregular	Polyethylene	
		14	12.97	Transparent	Irregular	Polyamide	
		15	30.91	Transparent	Irregular	Polyamide	
		16	22.68	Transparent	Irregular	Polyethylene vinyl acetate	
		17	18.02	Transparent	Irregular	Polyethylene vinyl acetate	
		18	13.5	Transparent	Irregular	Polyester	
		19	5.54	Blue	Irregular	Polyethylene	
		20	19.26	Transparent	Irregular	Polyethylene	
		21	27.30	Transparent	Irregular	Polyethylene	
		22	28.69	Transparent	Irregular	Polyethylene	
		23	8.96	Transparent	Sphere	Polyethylene Vinyl acetate	
		24	13.57	Transparent	Irregular	Polyethylene Vinyl acetate	
		25	12.16	Transparent	Irregular	Polyethylene	
10	Placenta	1	7.27	Transparent	Sphere	Polyamide	
		2	24.74	Transparent	Irregular	Polyethylene	
		3	7.84	Transparent	Irregular	Polyethylene	
		4	32.74	Transparent	Irregular	Polystyrene	
		5	32.97	Transparent	Irregular	Polyamide	
		6	7.23	Transparent	Irregular	Polyethylene	
		7	24.36	Transparent	Irregular	Polystyrene	
		8	30.74	Transparent	Irregular	Polystyrene	
		9	29.61	Transparent	Irregular	Polystyrene	
10	Placenta	10	29.15	Transparent	Irregular	Polyethylene Vinyl Acetate	
		11	36.85	Transparent	Irregular	Polyethylene	
		12	10.43	Transparent	Irregular	Polyethylene	
	Umbilical Cord	1	33.57	Transparent	Irregular	Polyethylene-co-Polypropylene	
		2	13.61	Transparent	Irregular	Polyamide	
		3	9.88	Red	Sphere	Polyamide	
		4	8.76	Red	Sphere	Polyamide	
		5	27.43	Transparent	Irregular	Polyethylene	
		6	18.99	Red	Irregular	Polyethylene Vinyl Acetate	
		7	18.30	Transparent	Irregular	Polyamide	
		8	15.44	Transparent	Irregular	Polyamide	
		9	13.74	Transparent	Irregular	Polyester	
		10	8.11	Transparent	Irregular	Polyurethane	
		11	7.1	Transparent	Irregular	Polyethylene Vinyl Acetate	
		12	20.91	Transparent	Irregular	Polyethylene	
		13	13.91	Transparent	Irregular	Polyethylene	
		14	32.20	Transparent	Irregular	Polyethylene Vinyl Acetate	

Table S1. Continuation.

10	Umbilical Cord	15	30.37	Red	Irregular	Polyamide	
		16	15.93	Transparent	Irregular	Polyester	
		17	4.29	Transparent	Irregular	Polyethylene	
		18	5.05	Transparent	Irregular	Polyamide	Superfex 200
		19	19.36	Transparent	Irregular	Polyester	
		20	10.59	Transparent	Irregular	Polyester	

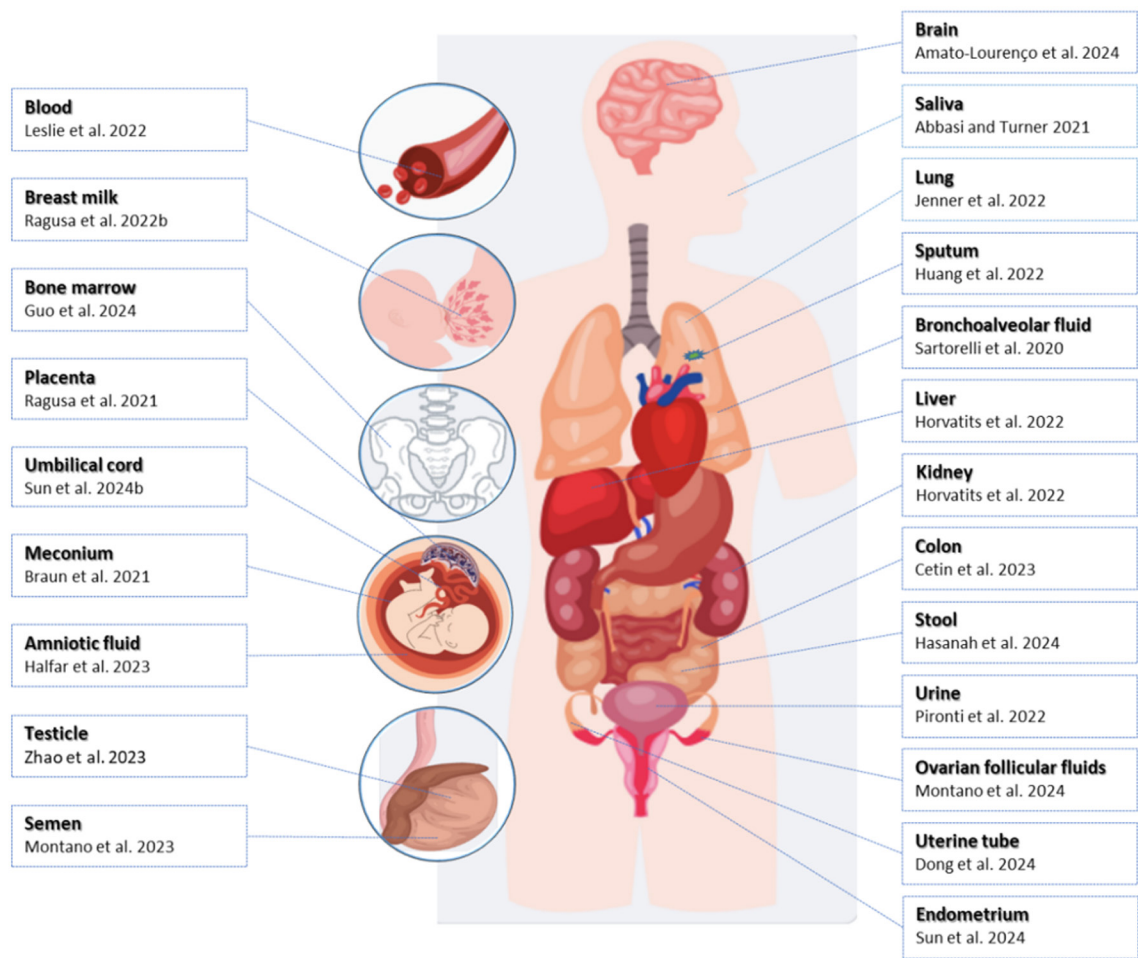


Figure S1. Presence of microplastics in the human body. For the sake of clear illustration, the size of structures is not displayed in realistic proportions. The figure was drawn using free pictures from Canva software.