

Table 1 Overview of biomaterial samples collected in Lifelines NEXT

Biomaterials	Materials used for collection	Number	Volume (mL)	Sample type	Tubes for storage <sup>a</sup>	Pregnancy (weeks)			Birth	First year of life (months)											
						12	18-20	28		1	2	3	3-4	5	6	9	10	11	12		
<b>Mother</b>																					
Venous blood	K2EDTA	1	10	plasma	2D tube	x		x	x												
	Serum SSTII	1	8.5	serum	2D tube	x		x	x												
	Serum CA	1	6	serum	2D tube	x		x	x												
	PAXgene	1	2.5	peripheral blood	PAXgene tube	x		x													
Feces	Cryotube	4	2	Feces	Cryotube	x		x	x	x	x				x	x			x		
	Swab	1		Feces	Glycerol tube	x		x	x	x	x				x	x			x		
Vaginal swab	swab	1		Vaginal swab	Cryotube				x												
Placenta (maternal)	RNAlater	2	5	Placenta (maternal)	2D tube				x												
Breast milk	Cryotube	15	2	Breast milk	Cryotube					x	x	x			x	x			x		
	Swab	1		Breast milk	Glycerol tube					x	x	x			x	x			x		
<b>Child</b>																					
Umbilical cord blood	K2EDTA	1	10	plasma	2D tube				x												
	Serum SSTII	1	8.5	Serum	2D tube				x												
	Serum CA	1	6	Serum	2D tube				x												
	PAXgene	1	2.5	Peripheral blood	PAXgene tube				x												
Capillary blood	Blood spot	2		Dry Blood Sample	Dry Blood Sample								x								
	EDTA	4	0.5	plasma	2D tube								x								
				buffy coat	2D tube								x								
Venous blood	K2EDTA	2	0.5	plasma	2D tube														x		
				buffy coat	2D tube								x						x		
	Serum CA	2	0.5	serum	2D tube														x		
	Heparine Gel	2	0.6	plasma	2D tube														x		
Placenta (fetal)	RNAlater	2	5	Placenta (fetal)	2D tube				x												
Feces	Cryotube	5	2	Feces	Cryotube				x	x	x	x			x	x			x		
	Swab	1		Feces	Glycerol				x	x	x	x			x	x			x		

					tube															
Nose	Swab RNA	1		nose swab	2D tube									x						x
	Swab DNA	1		nose swab	2D tube									x						x
	Swab microbiome	1		Nose swab	Copan tube									x						x
Mouth	Swab microbiome	1		mouth swab	2D tube									x						x
Urine	Peepspot	1	1.2	urine	2D tube									x						x
<b>Environmental</b>																				
Dust collector	sheet	2		dust	bag				x						x					
<b>Father<sup>b</sup></b>																				
Venous blood	K2EDTA	1	10	plasma	2D tube	x														
	Serum SSTII	1	8.5	serum	2D tube	x														
	Serum CA	1	6	serum	2D tube	x														
	Heparine gel	1	9	plasma	2D tube	x														
	PAXgene	1	2.5	peripheral blood	PAXgene	x														

<sup>a</sup> All materials stored at -80, except for the Dry Blood Sample collected at 4 months (room temperature)

<sup>b</sup> Only for non-Lifelines participants, collected at the moment of inclusion