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## SUPPLEMENTARY MATERIAL

### Preliminary results from monitoring perfluoroalkyl substances contamination in the livers of broiler chickens raised in Italy

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**Key words:** PFAS, broiler chicken, liver, rearing system, LC-MS/MS.

**Supplementary Table 1. MS/MS detection parameters.**

Analyte		MRM Transitions	Cone voltage (V)	Collision energy (eV)
Sodium-perfluoro-1-hexane sulfonate	L-PFHxS	<b>399.0 &gt; 79.91</b>	16	36
		399.0 > 98.91		32
Perfluoro-n-octanoic acid	PFOA	<b>413.00 &gt; 369.00</b>	20	9
		413.00 > 169.00		18
Perfluorononanoic acid	PFNA	<b>463.00 &gt; 419.00</b>	20	9
		463.00 > 219.00		15
Perfluorooctane sulfonic acid	L-PFOS	<b>499.00 &gt; 98.91</b>	30	35
		499.00 > 80.00		45
Perfluoro-n-[1,2- <sup>13</sup> C <sub>2</sub> ]octanoic acid	M2PFOA	<b>415.00 &gt; 370.00</b>	20	9
Sodium perfluoro-1-[1,2,3,4- <sup>13</sup> C <sub>4</sub> ]octanesulfonate	MPFOS	<b>503.00 &gt; 80.00</b>	30	45

The transitions in bold are those used for quantification. MRM, multiple reaction monitoring; L-PFHxS, L-perfluorohexane sulfonic acid; PFOA, perfluorooctanoic acid; PFNA, perfluorononanoic acid; L-PFOS, L-perfluorooctanesulfonic acid; M2PFOA, perfluoro-n-(1,2-<sup>13</sup>C<sub>2</sub>) octanoic acid; MPFOS, sodium perfluoro-1-(1,2,3,4-<sup>13</sup>C<sub>4</sub>) octanesulfonate

**Supplementary Table 2. Method trueness (bias%) and precision (CV%) under intra-day and inter-day conditions.**

QC concentration (µg/kg)			PFOS	PFOA	PFNA	PFHxS
0.04	Intra-day (n=3)	Trueness (bias%)	from -5% to +1%	from -4% to +2%	from -4% to -1%	from -10% to -1%
		Precision (CV%)	from 1% to 3%	from 2% to 6%	from 1% to 5%	from 1% to 4%
	Inter-day	Trueness (bias%)	-3%	0%	-2%	+4%
		Precision (CV%)	3%	5%	4%	5%
0.50	Intra-day (n=3)	Trueness (bias%)	0%	from -2% to 0%	0%	from -5% to 0%
		Precision (CV%)	1%	1%	from 1% to 2%	from 2% to 5%
	Inter-day	Trueness (bias%)	0%	-1%	0%	-2%
		Precision (CV%)	1%	1%	1%	3%
5.00	Intra-day (n=3)	Trueness (bias%)	0%	from 0% to +1%	from 0% to +1%	0%
		Precision (CV%)	from 1 to 2%	from 0 to 2%	from 0 to 1%	from 2% to 4%
	Inter-day	Trueness (bias%)	0%	+1%	+1%	0%
		Precision (CV%)	1%	1%	1%	3%

QC, quality control; PFOS, perfluorooctanesulfonic acid; PFOA, perfluorooctanoic acid; PFNA, perfluorononanoic acid; PFHxS, perfluorohexane sulfonic acid