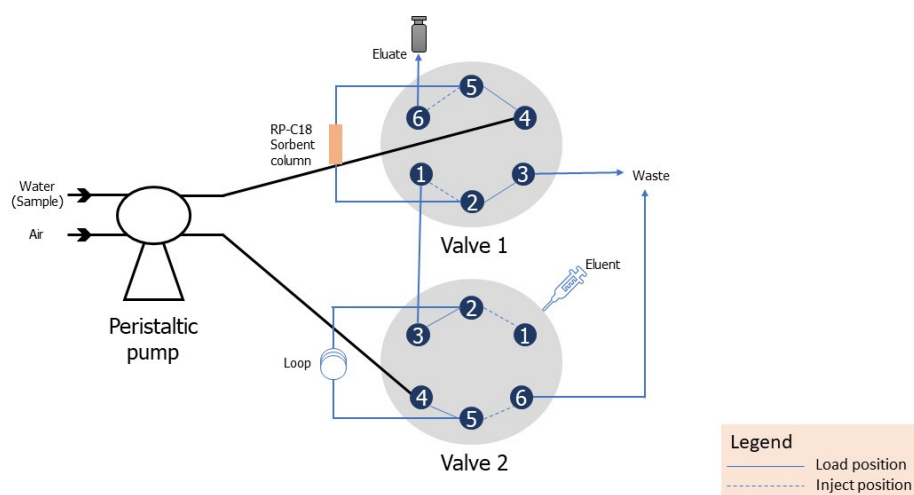


# Supplementary Information

## Trace-Level Determination of Polycyclic Aromatic Hydrocarbons in Dairy Products Available in Spanish Supermarkets by Semi-Automated Solid-Phase Extraction and Gas Chromatography–Mass Spectrometry Detection

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**Figure 1S.** Continuous-flow system for the solid-phase extraction of PAHs from dairy products.

**Table 1S.** Regression equation and quantification limit of the determination of PAHs in milk and dairy product by the proposed method.

Compound	Milk sample		Butter sample	
	LOQ <sup>a</sup>	Regression equation	LOQ <sup>a</sup>	Regression equation
	(ng/kg)		(ng/kg)	
Naphthalene (Nap)	4	$y = 9.3 \cdot 10^{-3} x + 0.003$	7	$y = 4.2 \cdot 10^{-3} X + 0.002$
Acenaphthylene (Ap)	4	$y = 8.5 \cdot 10^{-3} x + 0.006$	7	$y = 5.1 \cdot 10^{-3} X - 0.004$
Acenaphthene (Ac)	4	$y = 9.1 \cdot 10^{-3} x + 0.002$	7	$y = 4.1 \cdot 10^{-3} X + 0.003$
Fluorene (F)	7	$y = 5.2 \cdot 10^{-3} x + 0.006$	16	$y = 2.4 \cdot 10^{-3} X - 0.005$
Phenanthrene (Phe)	4	$y = 8.2 \cdot 10^{-3} x + 0.005$	7	$y = 4.5 \cdot 10^{-3} X - 0.002$
Anthracene (Ant)	26	$y = 9.4 \cdot 10^{-4} x + 0.008$	55	$y = 4.6 \cdot 10^{-4} X + 0.003$
Fluoranthene (Flu)	35	$y = 8.5 \cdot 10^{-4} x + 0.004$	60	$y = 4.2 \cdot 10^{-4} X + 0.004$
Pyrene (Pyr)	35	$y = 8.8 \cdot 10^{-4} x - 0.003$	65	$y = 4.0 \cdot 10^{-4} X + 0.006$
Benzo(a)anthracene (BaA)	85	$y = 4.3 \cdot 10^{-4} x - 0.005$	160	$y = 2.0 \cdot 10^{-4} X + 0.001$
Chrysene (Chry)	85	$y = 4.0 \cdot 10^{-4} x + 0.007$	170	$y = 1.8 \cdot 10^{-4} X + 0.002$
Benzo(b)fluoranthene (BbF)	85	$y = 3.5 \cdot 10^{-4} x + 0.009$	170	$y = 1.6 \cdot 10^{-4} X - 0.001$
Benzo(k)fluoranthene (BkF)	85	$y = 3.6 \cdot 10^{-4} x + 0.002$	160	$y = 1.4 \cdot 10^{-4} X + 0.007$
Benzo(a)pyrene (BaP)	85	$y = 3.0 \cdot 10^{-4} x - 0.001$	175	$y = 1.5 \cdot 10^{-4} X - 0.003$
Dibenzo[a,h]anthracene (DBahA)	350	$y = 0.8 \cdot 10^{-4} x - 0.004$	620	$y = 0.4 \cdot 10^{-4} X - 0.002$
Benzo[ghi]perylene (BP)	350	$y = 0.7 \cdot 10^{-4} x + 0.005$	640	$y = 0.4 \cdot 10^{-4} X + 0.002$
Indeno[1.2.3-cd]pyrene (IP)	350	$y = 0.8 \cdot 10^{-4} x - 0.002$	630	$y = 0.5 \cdot 10^{-4} X - 0.003$

<sup>a</sup> LOQ: quantification limit