

Alkaline extraction for mercury determination in fish samples by CV - MIP AES as an alternative to conventional sample preparation methods. – **Supplementary material**

Table 1: Trueness assessment. C ($\mu\text{g L}^{-1}$): Hg concentration in the measured solution. C ($\mu\text{g kg}^{-1}$): Hg concentration in the CRM. SD standard deviation

NRC-DOLT-5		Certified value (mg kg^{-1}): 0.44	
mass (g)	final mass (g)	C ($\mu\text{g L}^{-1}$)	C ($\mu\text{g kg}^{-1}$)
0.2520	21.8308	6.37	0.55183411
0.2521	19.2561	4.42	0.33761191
0.2511	21.7011	5.55	0.47965394
0.2521	20.0135	5.54	0.4398048
0.2555	21.9198	5.05	0.43324849
0.2509	23.1759	3.92	0.36209457
Average:	0.4340413	SD	0,078056986

Table 2: Trueness and precision assessment. C ($\mu\text{g L}^{-1}$): Hg concentration in the measured solution. C ($\mu\text{g kg}^{-1}$): Hg concentration in the CRM.

Mussel Tissue		Certified value (mg kg^{-1}): 0.071	
mass (g)	final mass (g)	C ($\mu\text{g L}^{-1}$)	C ($\mu\text{g kg}^{-1}$)
0.6177	24.5233	2.18	0.08654815
0.6179	24.1156	2.00	0.07805664
0.6035	24.4346	1.46	0.05911270
0.2002	10.6941	1.60	0.08546733
0.2021	10.7764	1.63	0.08691505
0.2058	10.6016	1.57	0.08087712
Average:	0.079408804	SD:	0,010538638
		sr(%):	13.3

Table 3: Precision assessment. C ($\mu\text{g L}^{-1}$): Hg concentration in the measured solution. C ($\mu\text{g kg}^{-1}$): Hg concentration in the sample (fresh basis).

Fish sample			
mass (g)	final mass (g)	C ($\mu\text{g L}^{-1}$)	C ($\mu\text{g kg}^{-1}$)
0.6016	24.2768	8.43	0,07722129
0.6052	25.5458	7.33	0,07023449
0.6051	25.2697	7.16	0,06787531
0.6098	24.9725	8.27	0,07687869
0.6100	24.547	8.38	0,07654881
0.6051	23.8572	8.30	0,07428417
sr(%) : 5.3			

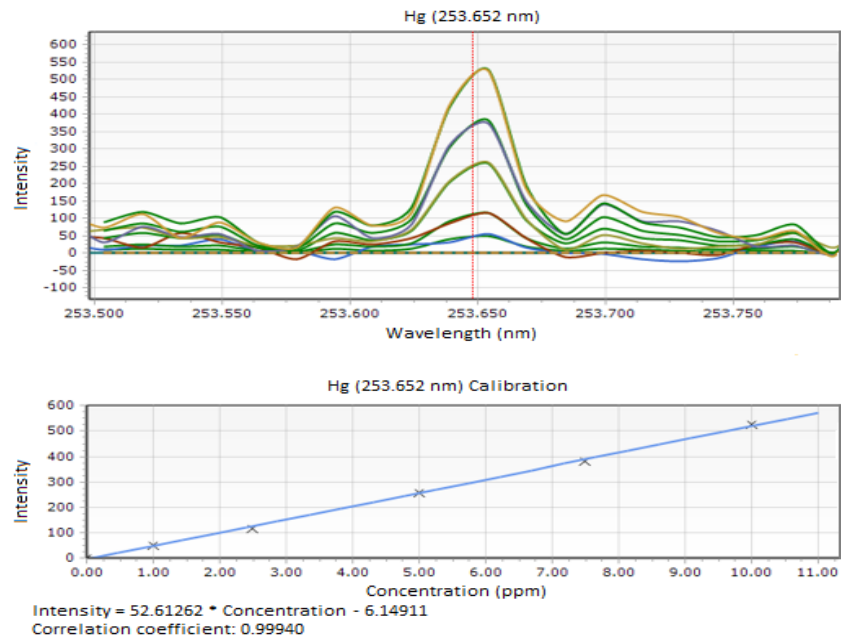


Figure 1: Example of the signal showed by the spectrometer (average of triplicates) for each point of a calibration curve