

Supporting information

Optical Chemosensors for environmental monitoring of toxic metals related to Alzheimer's Disease.

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Table S1. Drinking water quality guidelines ($\mu\text{g L}^{-1}$) for heavy metals

Heavy Metal	Substrate	WHO	EU	US EPA	Oxidation States	Health Effects
Arsenic	As	10	10	10	III, V	Skin damage, renal system failure, cancer [1,2].
Cadmium	Cd	3	5	5	II	Cardiovascular issues, osteoporosis, cancer [3].
Lead	Pb	10	10	15	II	Nervous system impairment, brain damage, cancer [4,5].
Mercury	Hg	1	1	2	I, II	Renal failure, neurological disorders, cancer [6,7].

Note

: Reprinted from “ A Review of Microfluidic Detection Strategies for Heavy Metals in Water” by Lacey, A. and Cleary, J., 2021, *Chemosensors*, 9, 60.

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