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Technical Notes

On-line Pseudo-stationary Magnetic Solid-phase Extraction using Magnetic Cation Exchange Microparticles and Its Application to the Determination of Strontium

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Table S1 Instruction sequence of magnetic particles set-up into the reaction coil

Step	Position			Action	Flow rate/ mL min ⁻¹	Volume/ mL	Description
	SPV	SV	SWV				
1	Left	1	1	Aspirate	50	15.0	Aspiration of water
2	Right	8	1	Aspirate	20	0.4	Aspiration of magnetic particles (approx. 20 mg)
3	Right	3	1	Dispense	20	0.4	Positioning of magnetic particles into reaction coil
4	Right	3	1	Wait	0	0.0	Placing of magnets onto reaction coil
5	Right	3	1	Dispense	1	10.0	Removal of not-retained magnetic particles
6	Right	2	1	Dispense	5	1.0	Cleaning of loading coil

a. Acronyms (SPV, SV, SWV) as in Fig. 1.

Table S2 Instruction sequence of the analytical method for strontium determination

Step	Position			Action	Flow rate/ mL min ⁻¹	Volume/ mL	Description
	SPV	SV	SWV				
1	Left	1	1	Aspirate	50	4.0	Aspiration of water
2	Right	7	1	Aspirate	20	0.5	Aspiration of HNO ₃
3	Right	3	1	Dispense	1	0.5	Conditioning of magnetic particles
4	Right	6	1	Aspirate	20	1.0	Aspiration of sample
5	Right	3	1	Dispense	1	1.4	Pre-concentration of sample and rinse with water
6	Right	7	1	Aspirate	20	0.5	Aspiration of HNO ₃
7	Right	3	1	Dispense	1	0.8	Elution and positioning of eluted sample up to loading coil
8	Right	3	2	Dispense	1	1.0	Injection of eluted sample into MP-AES and cleaning of magnetic particles
9	Right	2	1	Dispense	5	1.0	Cleaning of loading coil

a. Acronyms (SPV, SV, SWV) as in Fig. 1.

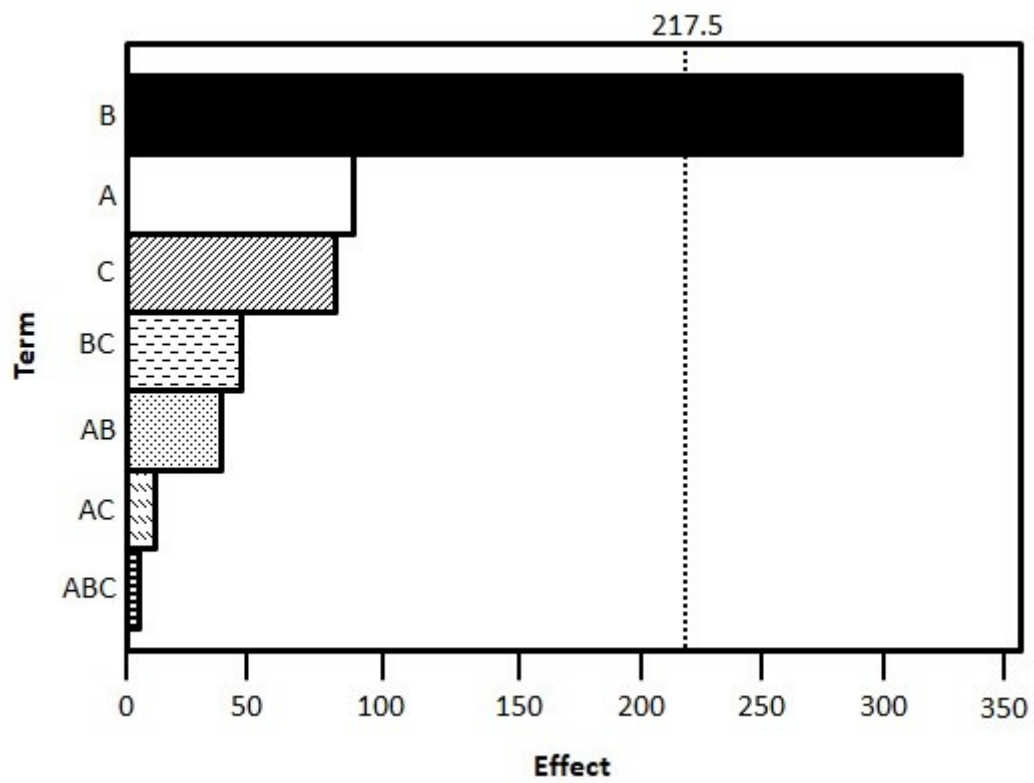


Fig. S1 An illustration of the Pareto chart showing the effects of the observed variables obtained by the statistical software. A, HNO₃ concentration; B, Volume of sample; C, pH.