

Selective and precise solid phase extraction based on magnetic cellulose gold nanocomposite followed by ICP-OES analysis for monitoring of total sulfur content in liquid fuels

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Table S1. Operating parameters and conditions of ICP-OES for total sulfur analysis

Parameters	Conditions
RF Power (W)	1200 W
Auxiliary gas flow rate(L/min)	1.5 L/min
Plasma gas (Ar) flow rate (L/min)	15.0 L/min
Pump speed (rpm)	85 rpm
Peri-pump speed analysis (s)	15 s
Stabilization time (s)	15 s
Nebulizer gas flow rate (L/min)	0.75L/min
Elemental wavelength	S (182.562)
Replicates	3

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Table S2. The minimum and maximum amount used for different parameters for screening.

Variable	Minimum (-)	Maximum (+)
Mass of sorbent (mg)	5	50
Sorption time (min)	10	60
pH	4	9
Eluent volume (μ L)	100	1000
Elution time (min)	4	10

