

Determination of sub-ng g⁻¹ Au in geological samples by ion molecule reaction ICP-MS and CH₄ plasma modifier

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Electronic Supplementary Information

1. Fig S1 Diagram of the experimental setup.

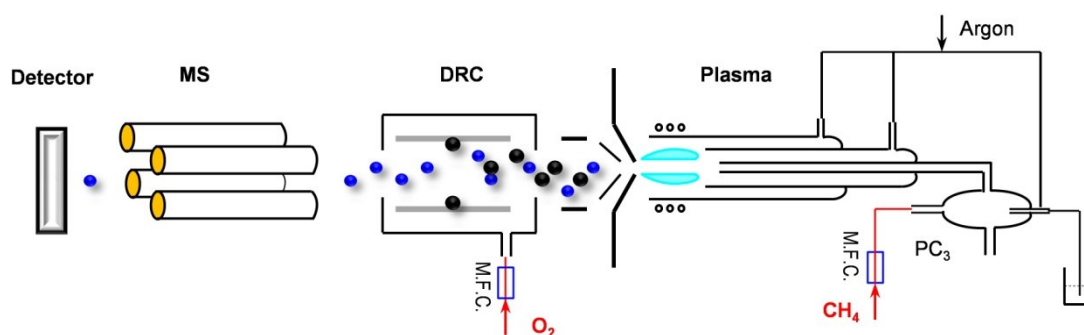


Fig S1 Diagram of the experimental setup.

2. **Table S1** Closed acid digestion procedure with a mixture of HCL + HF + HNO₃.

Table S1. Closed acid digestion procedure with a mixture of HCL + HF + HNO₃

Step	Description
1	100 mg sample powder (< 200 mesh) was weighed into a Teflon bomb, moistened with a few drops of ultrapure water.
2	1.0 mL HNO ₃ +1.0 ml HF +1.0 ml HCL were added. The sealed bomb was heated at 190 °C in oven for > 48 h.
3	Open the bomb and evaporate the solution at ~120 °C to dryness. This was followed by adding 1 ml HNO ₃ +1.0 ml HCL and evaporating to the second round of dryness.
4	The resultant salt was re-dissolved by adding ~1 ml of HNO ₃ +1.0 ml HCL and resealed and heated in the bomb at 190 °C for >12 h.
5	The final solution was diluted to ~20 g with pure water for ICP-MS analysis.