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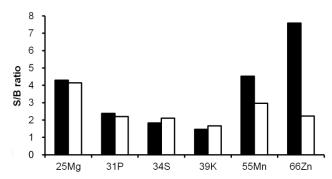


Fig. S1 Comparison between performances of the longer spray chamber (black bar) used in this study and the original one (white bar) in terms of S/B ratios of several elements (²⁵Mg, ³¹P, ³⁴S, ³⁹K, ⁵⁵Mn, and ⁶⁶Zn) under the same experimental conditions using a suspension of *S. cerevisiae* cells and a conventional ICP-MS system (without the external ion pulse counting unit) with 10 ms integration time.