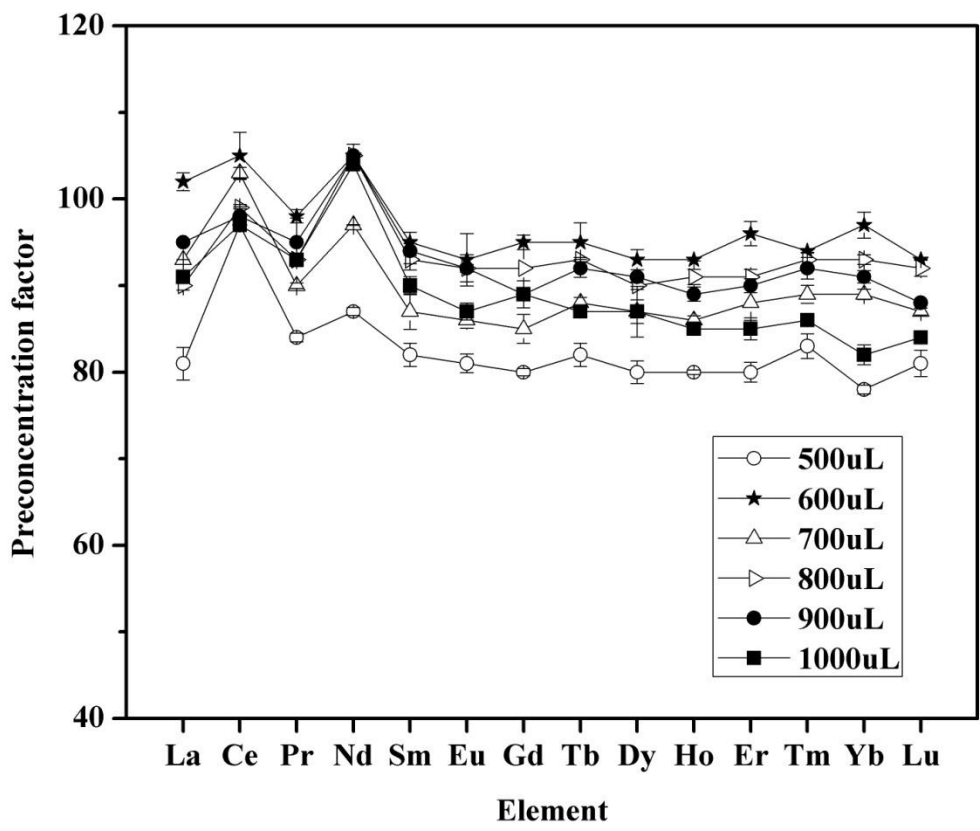


**Fig. 1** Effect of disperser solvent (MeOH) volume (in mL) on the preconcentration factor of REEs obtained from DLLME. Extraction conditions: water sample volume = 50mL; extractant solvent ( $\text{CHCl}_3$ ) volume = 600 $\mu\text{L}$ ; [2, 6-PDCA] =  $0.5 \times 10^{-3} \text{ mol L}^{-1}$ ; [aliquat<sup>®</sup> 336] = 8% (v/v) in  $\text{CHCl}_3$ ; pH = 4; concentration of REEs = 10 ng  $\text{L}^{-1}$ . (Error bars correspond to n = 3 replicates).



**Fig. 2** Effect of extractant solvent (CHCl<sub>3</sub>) volume (in  $\mu\text{L}$ ) on the preconcentration factor of REEs obtained from DLLME. Extraction conditions: water sample volume = 50mL; disperser solvent (MeOH) volume = 1.5mL; [2, 6-PDCA] =  $0.5 \times 10^{-3} \text{ mol L}^{-1}$ ; [aliquat<sup>®</sup> 336] = 8% (v/v) in CHCl<sub>3</sub>; pH = 4; concentration of REEs =  $10 \text{ ng L}^{-1}$ . (Error bars correspond to n = 3 replicates).

**Table 2** Volume of buffer reagents to be mixed for 50mL solution, for the pH range 3-8.

pH	Vol. of 10mol L <sup>-1</sup> Acetic acid, mL	Vol. of 1mol L <sup>-1</sup> Sodium acetate, mL
3	0.491	0.090
4	0.424	0.765
5	0.179	3.215
6	0.026	4.740
pH	Vol. of 10mol L <sup>-1</sup> Phosphate, mL	Vol. of 1mol L <sup>-1</sup> HCl, mL
7	0.378	1.220
8	0.478	0.225

Note: The above volumes were pipetted using a 1000 $\mu\text{L}$  eppendorf<sup>®</sup> micropipette of 1 $\mu\text{L}$  volume increment.