

Supplementary Information

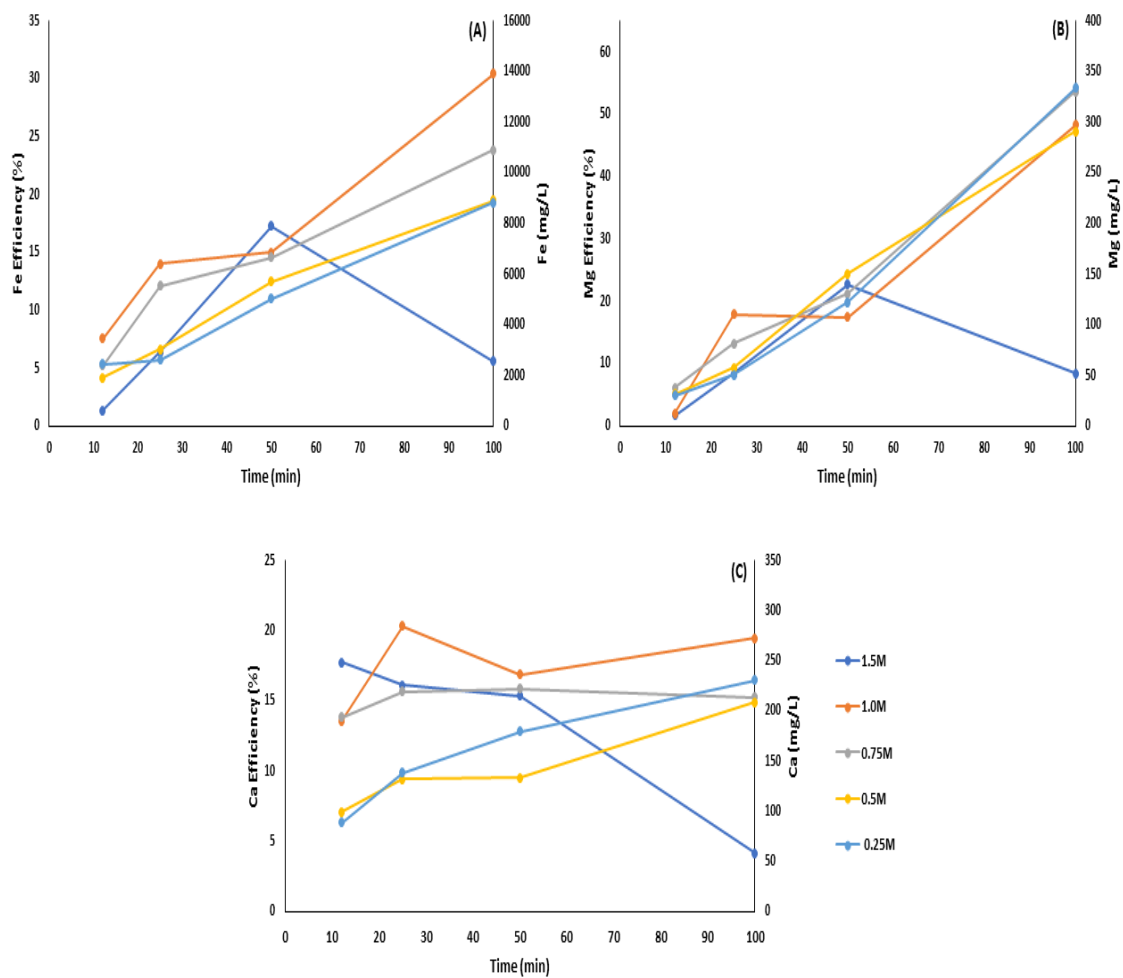


Figure S1. Elution efficiency as a function of reaction time using different concentrations of oxalic acid (A) Fe; (B) Mg; (C) Ca elution efficiency

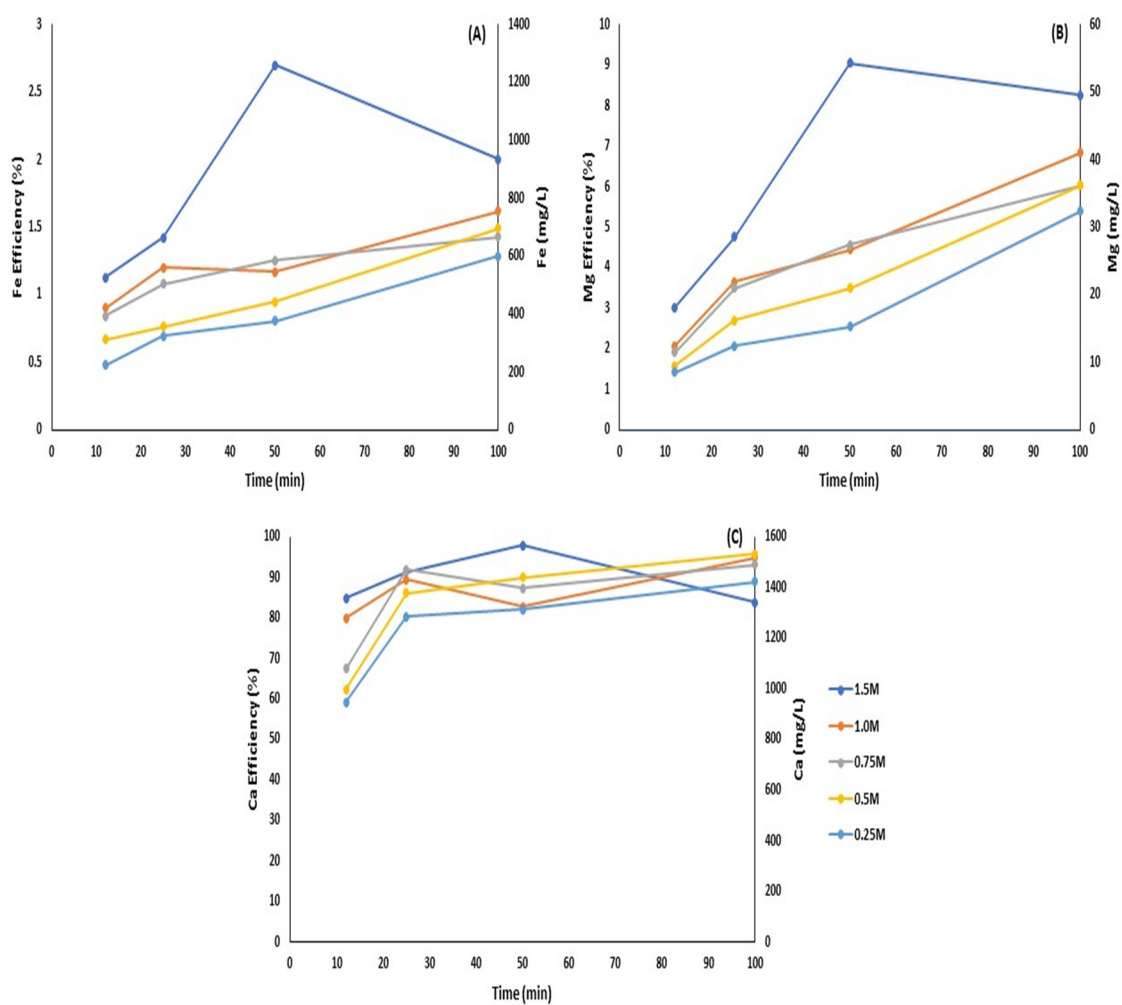


Figure S2. Elution efficiency as a function of reaction time using different concentrations of HCl (A) Fe; (B) Mg; (C) Ca elution efficiency

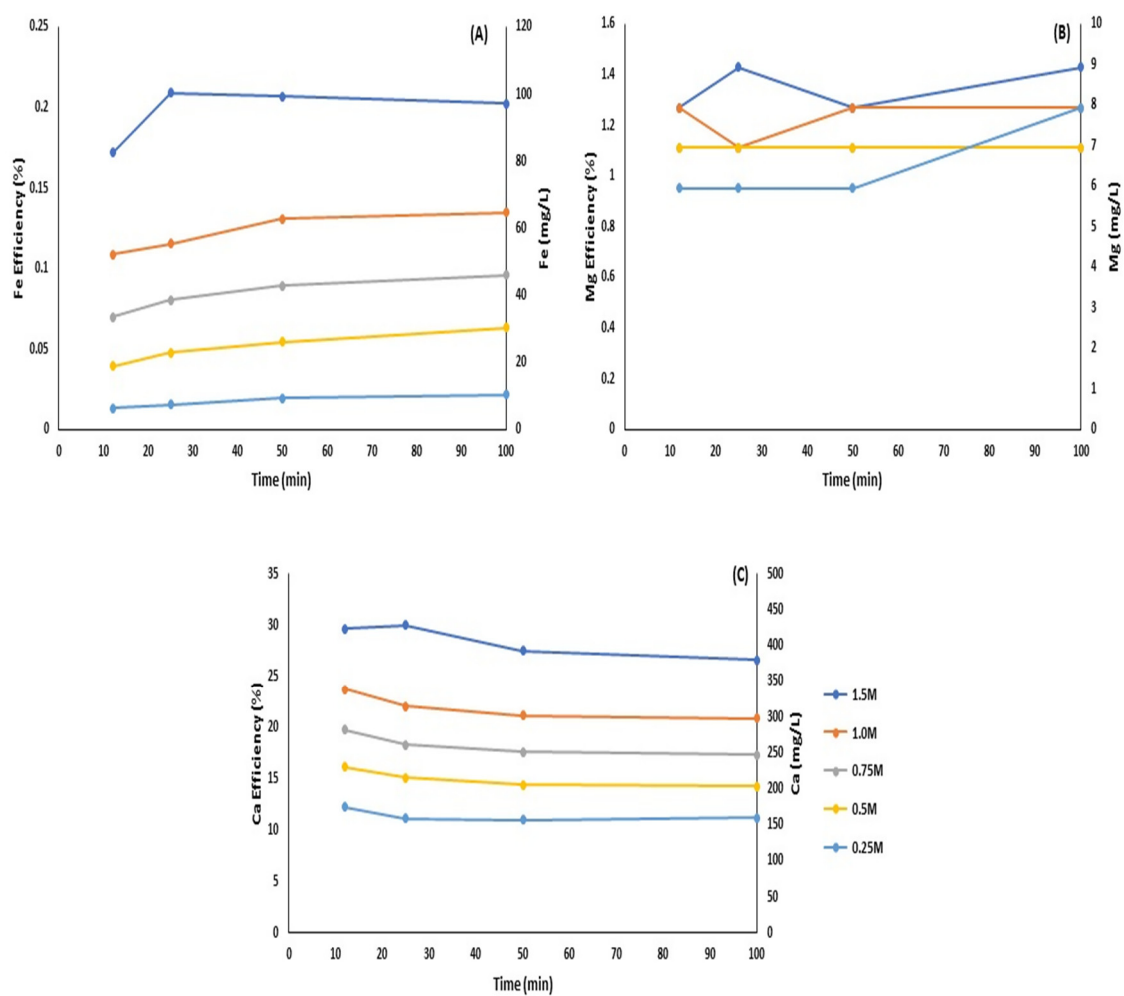


Figure S3. Elution efficiency as a function of reaction time using different concentration of formic acid (A) Fe; (B) Mg; (C) Ca elution efficiency.

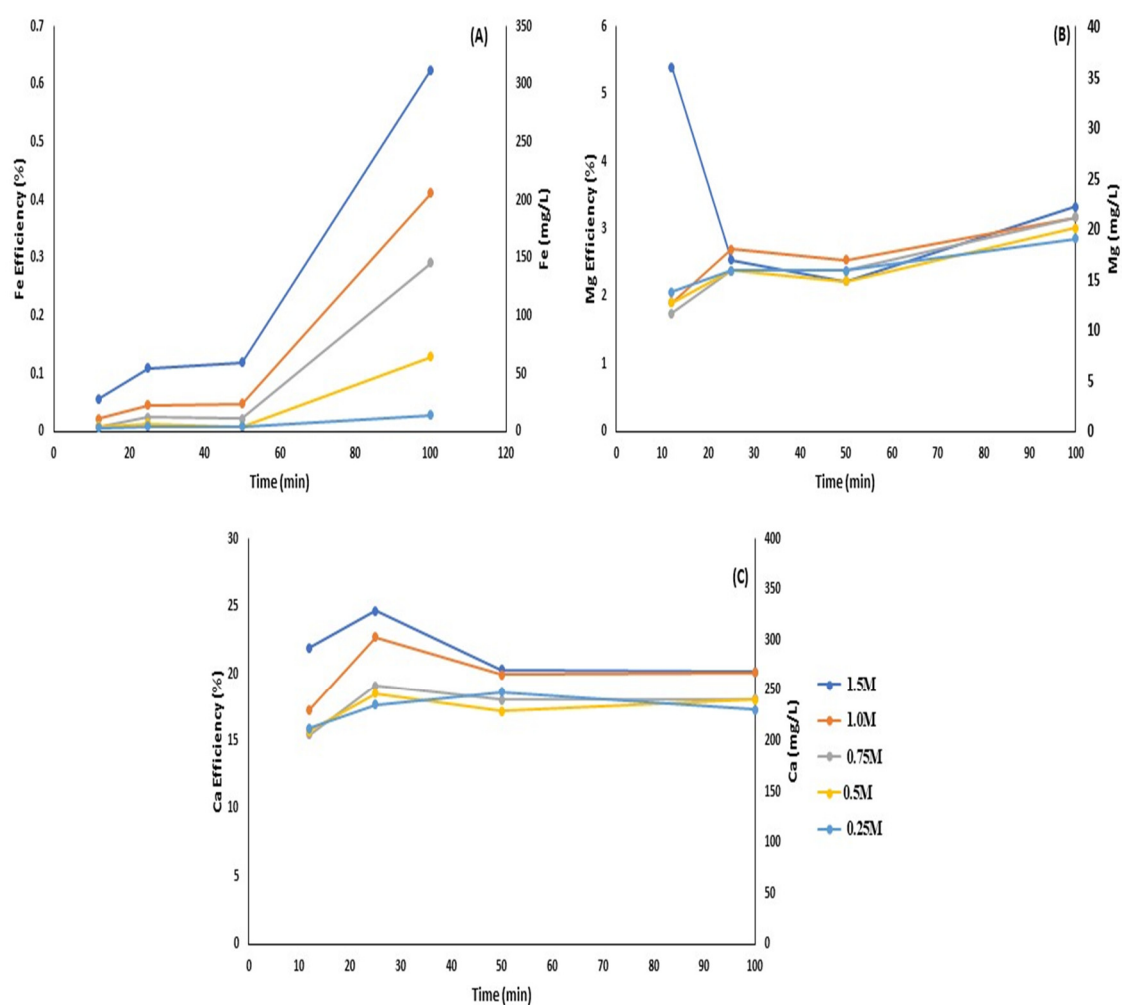


Figure S4. Elution efficiency as a function of reaction time using different concentrations of acetic acid (A) Fe; (B) Mg; (C) Ca elution efficiency.

Oxalic Acid (Fe)						
Anova: Single Factor		Variable1				
Variable2		0.25M	0.5M	0.75M	1M	1.5M
	12MIN	2454	1925	2395	3485	615
	25MIN	2623	3041	5568	6447.37	2943
	50MIN	5049	5745	6685	6889	7950
	100MIN	8876.5	8955	10955	13973	2572

Oxalic Acid (Mg)						
Anova: Single Factor		Variable1				
Variable2		0.25M	0.5M	0.75M	1M	1.5M
	12MIN	31	32	39	13	11
	25MIN	52	59	83	113	53
	50MIN	125	154	134	110	143
	100MIN	342	298	338	304	53

HCl (Ca)						
Anova: Single Factor		Variable1				
Variable2		0.25M	0.5M	0.75M	1M	1.5M
	12MIN	859	903	979	1159	1230
	25MIN	1163	1247	1331	1296	1325
	50MIN	1190	1304	1266	1199	1419
	100MIN	1289	1389	1351	1376	1214

Figure S5. Statistical Analysis ANOVA data table.