

Repetitive Regeneration of Media #1 in a Dynamic Column Extraction using Brine #1

Experimental Conditions

- 1.5 x 15 cm column
- 10g -50 +100 mesh size Media #1
- pH 5.5
- Load solutions were 100mL of 2ppm each REE7 Brine #1
- Strip solutions were 100mL of 2M HNO₃
- 1L of Brine #1 with no REE's pH adjusted to 5.5 for equilibrating of media after first strip step
- Temperature at 70C

Table #1: Shows the percent of REE's recovered from media #1 after being loaded and stripped for two cycles.

Results from two sequential column loading/stripping studies				
Media 1 (+50 -100) , Brine 1M, 70oC, 2ppm REE7 mix @ 70°C.				
	REE's offered, mg	Media Strip	REE's Recovered, mg	% REE's Recovered
1 st REE Loading	1.4	1 st Media Strip	1	71.40%
2 nd REE Loading	1.4	2 nd Media Strip	1.39	99.30%