

Table 1. Comparison of the extraction behavior of tracer Es, Fm, and Md after treatment with various reducing agents. The column-elution method of extraction chromatography was used with the extractant, bis(2-ethylhexyl)phosphoric acid (HDEHP) adsorbed on a column bed of a fluoroplastic powder. (Reprinted with the permission of Science: Copyright 1967 by the American Association for the Advancement of Science).

CONDITIONS FOR REDUCTION	STANDARD POTENTIAL OF REDUCING AGENT (volts)	% NON-EXTRACTED BY HDEHP COLUMN	
		Md	Es-Fm
Zn(Hg) AMALGAM, 80° ~20 min, 0.1 M HCl; Zn(Hg) AMALGAM IN UPPER HALF OF EXTRACTION COLUMN	+0.763	77	<0.10
0.01 M Eu <sup>2+</sup> , 0.1 M HCl, ~2-3 min, 80°; Zn(Hg) AMALGAM IN UPPER HALF OF EXTRACTION COLUMN	+0.43	75	<0.10
0.6 M Cr <sup>2+</sup> , 0.1 M HCl, ~2 min, 25°C; EXTRACTION COLUMN PRE-WASHED WITH 0.6 M Cr <sup>2+</sup> IN 0.1 M HCl	+0.41	99	0.56