Table IV-8A. Concentrations (ppm) of elements in various mineral phases of the ordinary chondrite Modoc (L6).

Z	class	Bulk 100 %	Metal 8.1 %	FeS 6.5 %	Olivine 46.1 %	Hypersthene 23.6 %	Plagio. 10.8 %	Chromite 0.8 %	Phosphate 0.7 %
B	l	0.4L			3		2		
Ba	l	3.8			<0.5	2	42 (100)	2	11
Br	l	0.7	1 (12)	1 (9)					8 (8)
Cl	l	76	74?	13					12000 (100)
Co	s	800	10000 (100)	38	25	7	1	28	620
Cr	l	3800	<10	140	350	800	370	370000 (78)	340
Cu	s/c	170	620 (30)	220 (8)	14	7	5	460 (2)?	52
Ga	l/s	6.3	22 (28)	6 (6)	2	2	17 (29)	65 (8)	2
In	c	.0002		0.1 (100)					
Mn	l	2600	<10	150	3600 (64)	3600 (33)	230	6000 (2)	580
Mo	s/c	1.3L	7 (44)	3 (15)					
Ni	s	13000	150000 (93)	820	230	46	<20	20	
Sc	l	8.1	1	8 (7)	3	10 (29)	6	2	44 (4)
Se	c	12.9		130 (66)					
Sn	s	0.28	2 (58)						
Sr	l	11			0.4	4	75 (74)	8	87 (6)
Ti	l	700	<50	50	100	1000 (34)	360	17000 (19)	2100 (2)
V	l	69	7	4	9	40	12	4000 (46)	5
Y	l	2.1		1		0.8	<1		160 (53)
Zn	l	46		10	20	17	3	2000 (34)	19
Zr	l	8		3		6	7	5	650 (57)

Z	class	Bulk 100 %	Phosphate 0.7 %	Z	class	Bulk 100 %	Phosphate 0.7 %	Z	class	Bulk 100 %	Diopside 3.1 %
La	l	0.34	51 (100)	Ho	l	0.084	8.6 (72)	Cr	l	3800	4100 (1)
Ce	l	0.9L	120 (93)	Er	l	0.23	19 (58)	Mn	l	2600	2000
Pr	l	0.13	17 (92)	Tm	l	0.033	2.4 (51)				
Nd	l	0.63	65 (72)	Yb	l	0.15	18 (84)				
Sm	l	0.2	27 (95)	P	l	1300	185000 (99)				
Eu	l	0.08	2.5 (22)	F	l	41L	880 (15)				
Gd	l	0.33	30 (64)	Hf	l	0.17L	18 (74)				
Tb	l	0.048	4.4 (64)	Th	l	0.059	7 (83)				
Dy	l	0.3	34 (79)	U	l	0.019	2.3 (83)				

Data sources: Mason and Graham (1970) and Mason (1979) except for values followed by L (Table IV-6, L column). Column class: l = lithophile; s = siderophile; c = chalcophile. The value in parenthesis represents the percent contribution by the indicated phase to the bulk composition of the indicated element.