

Supplementary table 8. KD used in the modelling.

	Clinopyroxen	Hornblende	Plagioclase	Magnetite
Ni	3.4 ¹	7.3 ¹	0.1 ¹	8.6 ¹
Rb	0.03 ¹	0.29 ²	0.06 ¹	0.0001 ¹
Ba	0.026 ¹	0.42 ²	0.23 ²	0.00001 ¹
Sr	0.12 ¹	0.36 ¹	1.6 ^{7 2}	0.00001 ¹
Nb	0.005 ²	0.80 ²	0.025 ¹	0.4 ²
Zr	0.35 ¹	0.45 ¹	0.048 ²	0.1 ²
Y	0.3 ¹	1.9 ¹	0.6 ¹	0.2 ²
La	0.07 ¹	0.5442 ²	0.19 ²	0.22 ¹
Ce	0.98 ¹	0.20 ¹	0.0815 ²	1.3 ²
Nd	0.31 ³	0.33 ²	0.0551 ²	1 ²
Sm	0.26 ¹	1.1 ¹	0.05 ¹	0.35 ¹
Eu	0.31 ¹	1.3 ¹	1.3 ¹	0.26 ¹
Gd	0.3 ¹	1.8 ¹	0.4 ¹	0.32 ¹
Tb	0.315 ¹	2 ¹	0.37 ¹	0.28 ¹
Dy	0.33 ¹	2 ¹	0.31 ¹	0.28 ¹
Er	0.3 ¹	1.9 ¹	0.26 ¹	0.22 ¹
Yb	0.28 ¹	1.7 ¹	0.024 ¹	0.18 ¹
Lu	0.27 ¹	1.7 ¹	0.023 ¹	0.18 ¹

source: (1) Genesis 4.0 Teixeira (2005); (2) Rollinson (1993) and reference therein; all KD used represent basic compositions.