

**Tab. 1** Compilation of the rock type and petrographic features of the individual samples. Mineral names abbreviations after Siivola and Schmid (2007).

Sample	Rock type	Groundmass	Phenocrysts	Further details
B 01	basanite	Cpx, Op, Pl, Ol, Ne	Ol, Cpx	CrX
B 02a	basanite	Cpx, Op, (Pl), Ol, Ne, Ap	Ol, Cpx	CrX
B 03a	basanite	Cpx, Op, (Pl), Ol, Ne, Ap	Ol, Cpx	CrX
B 05	Ol-melanephelinite	Cpx, Op, Ne, Bt, Ap	Ol, Cpx, GcCpx	CrX, MaX
B 06	Ol-melanephelinite	Cpx, Op, Ol, Ne	Ol, Cpx, GcCpx, Op	CrX, MaX, (Fsp), (Qtz)
B 07	Ol-melanephelinite	Cpx, Op, Ol, Ne, Bt	Ol, Cpx, GcCpx, Op	CrX, MaX
B 08	hawaiite	Cpx, Op, Pl, Bt	Ol, Cpx	CrX, MaX, (Qtz), (Fsp)
B 11b	basanite	Cpx, Op, Pl	Ol, Cpx, GcCpx	CrX, MaX, (Qtz), (Fsp)
B 12b	basalt	Cpx, Op, Pl, Ne	Ol, Cpx	CrX, MaX, (Qtz), (Fsp)
B 13	basanite	Cpx, Op, Pl	Ol, Cpx, GcCpx	CrX, MaX, (Qtz), (Fsp)
B 14a	Cpx-melanephelinite	Cpx, Op, Bt, Ne	Cpx, Bt, (Ol)	CrX, MaX, (Qtz), (Fsp), Zeo
B 15	microbasalt	Cpx, Op, Bt, Ne	Cpx, (Bt), (Ol)	CrX, MaX, (Qtz), (Fsp), Zeo
B 16	Cpx-melanephelinite	Cpx, Op, Ne, Prv, Ap, ?Lct, ?Anl	Cpx	CrX, Zeo
B 17	Cpx-melanephelinite	Cpx, Op, Ne, Prv, Bt	Cpx, (Ol)	CrX
B 18c	Ol-Cpx-leucitite	Cpx, Op, Ne, Lct, Ap, Bt	Cpx, Lct, Ol	CrX
B 19	Cpx-melanephelinite	Cpx, Op, Ne	Cpx, (Ol)	CrX, Zeo
B 21	Cpx-melanephelinite	Cpx, Op, Ne, Prv, Bt, ?Anl	Cpx, GcCpx, (Op)	CrX
B 24	Tephrite	Cpx, Op, Ne, Ap, Bt, Pl	Cpx, GcCpx, Am, Bt	CrX, MaX, (Qtz), (Fsp), Zeo
B 25	Cpx-melanephelinite	Cpx, Op, Prv, Ne, Bt, ?Lct, ?Anl	Cpx, GcCpx	CrX
B 26b	hawaiite	Cpx, Op, Pl, Ap, ?Lct, ?Anl, ?Hyn	Cpx, GcCpx, Ttn, Ap, Am, Op	CrX
B 27a	h���ynite	Cpx, Op, Ne, Prv, Ap, Hyn	Cpx, GcCpx, Ap, (Op)	
B 30b	Cpx-melanephelinite	Cpx, Op, Ne, Prv, Bt	Cpx, GcCpx	CrX
B 30c	tephrite	Cpx, Op, Pl, Bt, Ne	Cpx, GcCpx, Bt	CrX, Zeo
B 32	Cpx-melanephelinite	Cpx, Op, Ne, Bt, ?Anl	Cpx, (Ol)	CrX
B 33a	Cpx-melanephelinite	Cpx, Op, Ne, Prv, Bt	Cpx	(CrX)
B 33b	Cpx-melanephelinite	Cpx, Op, Ne, Prv, Bt, Ap	Cpx, (Ol), (GcCpx)	CrX

CrX = crustal xenoliths or xenocrysts, MaX = mantle xenoliths or xenocrysts.

#### Reference List

SIIVOLA J, SCHMID R (2007) List of mineral abbreviations. In: FETTES D, DESMONS J (eds) *Metamorphic Rocks: A Classification and Glossary of Terms – Recommendations of the International Union of Geological Sciences Subcommission on the Systematics of Metamorphic Rocks*. Cambridge University Press, Cambridge, pp 93–110