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Supporting information for article:

**Cation distribution and magnetic structure of M-type
BaTiMnFe₁₀O₁₉ examined by synchrotron X-ray and neutron
studies**

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Table S1. Anisotropic temperature factors of cation sites for BaFe₁₂O₁₉ and BaTiMnFe₁₀O₁₉.

Site	β_{11}	β_{22}	β_{33}	β_{12}	β_{13}	β_{23}
BaFe₁₂O₁₉						
Ba	0.0057(5)	= β_{11}	0.000223(1)	= $\beta_{11}/2$	0	0
Fe(1)	0.0031(11)	= β_{11}	0.000051(2)	= $\beta_{11}/2$	0	0
Fe(2)	0.0016(8)	= β_{11}	0.001528(5)	= $\beta_{11}/2$	0	0
Fe(3)	0.0027(4)	= β_{11}	0.000175(1)	= $\beta_{11}/2$	0	0
Fe(4)	0.0023(4)	= β_{11}	0.000112(2)	= $\beta_{11}/2$	0	0
Fe(5)	0.0020(3)	0.0013(3)	0.0001127(8)	= $\beta_{22}/2$	0.00016(2)	= $2\beta_{13}$
BaTiMnFe₁₀O₁₉						
Ba	0.0049(5)	= β_{11}	0.000233(1)	= $\beta_{11}/2$	0	0
Fe(1)	0.0022(12)	= β_{11}	0.000101(4)	= $\beta_{11}/2$	0	0
Fe(2)	0.0008(9)	= β_{11}	0.001534(8)	= $\beta_{11}/2$	0	0
Fe(3)	0.0026(6)	= β_{11}	0.000085(3)	= $\beta_{11}/2$	0	0
Fe(4)	0.0039(6)	= β_{11}	0.000190(2)	= $\beta_{11}/2$	0	0
Fe(5)	0.0029(4)	0.0030(5)	0.000172(1)	= $\beta_{22}/2$	0.00005(1)	= $2\beta_{13}$