

Table S3. Atomic anisotropic displacement parameters for BaBi_{1.90}Eu_{0.10}B₄O₁₀, BaBi_{1.70}Eu_{0.30}B₄O₁₀ and BaBi_{1.60}Eu_{0.40}B₄O₁₀.

BaBi_{1.56}Eu_{0.44}B₄O₁₀						
	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
Bi1	0.01067 (14)	0.01175 (15)	0.01586 (17)	0.00094 (9)	0.00461 (11)	−0.00087 (9)
Eu1'	0.01067 (14)	0.01175 (15)	0.01586 (17)	0.00094 (9)	0.00461 (11)	−0.00087 (9)
Bi2	0.01023 (13)	0.01095 (14)	0.01596 (16)	−0.00134 (9)	0.00461 (10)	0.00036 (9)
Eu2'	0.01023 (13)	0.01095 (14)	0.01596 (16)	−0.00134 (9)	0.00461 (10)	0.00036 (9)
Ba1	0.0115 (2)	0.0100 (2)	0.0157 (2)	−0.00048 (13)	0.00515 (15)	−0.00084 (13)
O1	0.012 (2)	0.010 (2)	0.020 (3)	0.0019 (17)	0.005 (2)	−0.0010 (18)
O2	0.014 (2)	0.013 (3)	0.053 (4)	−0.0021 (19)	0.012 (3)	−0.009 (2)
O3	0.023 (3)	0.016 (3)	0.022 (3)	0.0125 (19)	0.010 (2)	0.010 (2)
O4	0.011 (2)	0.015 (2)	0.018 (3)	−0.0013 (17)	0.003 (2)	0.0047 (18)
O5	0.014 (2)	0.018 (3)	0.025 (3)	−0.0061 (18)	0.011 (2)	0.001 (2)
O6	0.012 (2)	0.029 (3)	0.022 (3)	−0.001 (2)	0.007 (2)	−0.008 (2)
O7	0.012 (2)	0.013 (2)	0.020 (3)	−0.0039 (17)	0.009 (2)	−0.0023 (18)
O8	0.008 (2)	0.012 (2)	0.018 (3)	−0.0025 (16)	0.0037 (19)	0.0029 (18)
O9	0.011 (2)	0.009 (2)	0.029 (3)	−0.0015 (17)	0.007 (2)	0.0001 (19)
O10	0.024 (3)	0.018 (2)	0.016 (3)	0.013 (2)	0.013 (2)	0.0051 (19)
B1	0.016 (4)	0.015 (4)	0.012 (4)	−0.001 (3)	0.001 (3)	0.000 (3)
B2	0.007 (3)	0.012 (3)	0.014 (4)	0.006 (2)	0.004 (3)	0.004 (3)
B3	0.016 (4)	0.023 (4)	0.037 (6)	−0.004 (3)	0.013 (4)	−0.011 (4)
B4	0.005 (3)	0.011 (3)	0.017 (4)	−0.002 (2)	0.002 (3)	0.001 (3)
BaBi_{1.67}Eu_{0.33}B₄O₁₀						
	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
Bi1	0.0125 (2)	0.0119 (2)	0.0135 (2)	0.00093 (13)	0.00371 (15)	−0.00079 (13)
Eu1'	0.0125 (2)	0.0119 (2)	0.0135 (2)	0.00093 (13)	0.00371 (15)	−0.00079 (13)
Bi2	0.0121 (2)	0.0119 (2)	0.0143 (2)	−0.00093 (13)	0.00321 (14)	0.00031 (13)
Eu2'	0.0121 (2)	0.0119 (2)	0.0143 (2)	−0.00093 (13)	0.00321 (14)	0.00031 (13)
Ba1	0.0140 (3)	0.0109 (3)	0.0139 (3)	−0.00065 (19)	0.0041 (2)	−0.00064 (19)
O1	0.008 (3)	0.010 (3)	0.013 (3)	0.003 (2)	0.000 (3)	0.004 (2)
O2	0.018 (4)	0.015 (4)	0.030 (4)	0.001 (3)	0.006 (3)	0.007 (3)
O3	0.026 (4)	0.012 (3)	0.018 (4)	0.011 (3)	0.009 (3)	0.006 (3)
O4	0.007 (3)	0.015 (4)	0.017 (4)	0.000 (2)	0.004 (3)	0.003 (2)
O5	0.011 (3)	0.015 (4)	0.021 (4)	−0.004 (3)	0.005 (3)	−0.007 (3)
O6	0.011 (4)	0.026 (4)	0.018 (4)	0.003 (3)	0.008 (3)	−0.002 (3)
O7	0.007 (3)	0.013 (4)	0.022 (4)	−0.006 (2)	0.000 (3)	−0.002 (3)
O8	0.015 (4)	0.011 (3)	0.017 (4)	−0.004 (3)	0.001 (3)	0.003 (3)
O9	0.009 (4)	0.016 (4)	0.031 (4)	−0.001 (3)	0.006 (3)	0.001 (3)
O10	0.018 (4)	0.013 (3)	0.017 (4)	0.005 (3)	0.008 (3)	0.001 (3)
B1	0.013 (5)	0.007 (5)	0.010 (5)	−0.005 (4)	0.001 (4)	0.001 (4)
B2	0.013 (5)	0.011 (4)	0.015 (5)	0.0035 (18)	0.0045 (17)	−0.004 (18)
B3	0.028 (7)	0.016 (6)	0.018 (6)	−0.004 (5)	0.008 (5)	−0.006 (4)
B4	0.006 (5)	0.016 (5)	0.011 (5)	−0.004 (4)	0.003 (4)	−0.006 (4)
BaBi_{1.94}Eu_{0.06}B₄O₁₀						
	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}

Bi1	0.01373 (18)	0.01207 (17)	0.01409 (17)	0.00120 (11)	0.00566 (12)	−0.00055 (11)
Eu1'	0.01373 (18)	0.01207 (17)	0.01409 (17)	0.00120 (11)	0.00566 (12)	−0.00055 (11)
Bi2	0.01276 (16)	0.01228 (15)	0.01521 (16)	−0.00061 (11)	0.00459 (12)	0.00015 (11)
Ba1	0.0138 (2)	0.0104 (2)	0.0130 (2)	−0.00098 (16)	0.00535 (18)	−0.00050 (16)
O1	0.013 (3)	0.018 (3)	0.010 (3)	0.002 (2)	0.006 (2)	0.002 (2)
O2	0.015 (3)	0.009 (3)	0.026 (3)	0.003 (2)	0.002 (3)	0.005 (2)
O3	0.021 (3)	0.005 (2)	0.017 (3)	0.007 (2)	0.007 (3)	0.003 (2)
O4	0.013 (3)	0.010 (3)	0.012 (3)	−0.004 (2)	0.001 (2)	0.003 (2)
O5	0.013 (3)	0.009 (3)	0.015 (3)	−0.003 (2)	0.006 (2)	−0.002 (2)
O6	0.012 (3)	0.020 (3)	0.015 (3)	0.001 (2)	0.010 (2)	−0.003 (2)
O7	0.003 (3)	0.015 (3)	0.018 (3)	−0.0020 (19)	0.004 (2)	0.000 (2)
O8	0.015 (3)	0.010 (3)	0.016 (3)	−0.001 (2)	0.005 (2)	0.002 (2)
O9	0.008 (3)	0.017 (3)	0.020 (3)	0.001 (2)	0.006 (2)	0.005 (2)
O10	0.014 (3)	0.016 (3)	0.013 (3)	0.004 (2)	0.006 (2)	0.002 (2)
B1	0.011 (4)	0.011 (4)	0.013 (4)	−0.001 (3)	0.003 (4)	−0.002 (3)
B3	0.014 (5)	0.016 (5)	0.030 (6)	−0.010 (4)	0.011 (4)	−0.010 (4)
B4	0.008 (4)	0.017 (4)	0.005 (4)	0.006 (3)	−0.001 (3)	0.001 (3)