

Table S1.- Selected bond length (Å) and angles (°) for compound **1**

N(1)-Ni(1)	2.061(4)	O(8)-Na(1)	2.418(4)
N(2)-Ni(1)	2.043(4)	O(8)-Na(2)	2.443(4)
Ni(1)-O(7)	2.019(4)	O(9)-Na(1)	2.411(4)
Ni(1)-O(3)	2.025(3)	O(10)-Na(1)	2.504(4)
Ni(1)-O(9)	2.153(3)	O(11)-Na(2)	2.393(4)
Ni(1)-O(5) ⁱ	2.233(3)	O(12)-Na(2)	2.295(4)
O(3)-Na(1)	2.591(4)	Na(2)-O(11) ⁱⁱⁱ	2.505(4)
O(3)-Na(2)	2.648(4)	Na(1)-O(10) ⁱⁱ	2.365(4)
O(4)-Na(2)	2.364(4)	Na(1)-O(7) ^{iv}	2.473(4)
O(7)-Ni(1)-O(3)	179.02(12)	O(4)-Na(2)-O(11)	155.09(16)
O(3)-Ni(1)-N(2)	98.51(15)	O(12)-Na(2)-O(11)	88.25(14)
O(7)-Ni(1)-N(2)	81.48(13)	O(12)-Na(2)-O(4)	115.58(16)
N(2)-Ni(1)-N(1)	178.13(13)	O(4)-Na(2)-O(8)	89.75(12)
O(7)-Ni(1)-N(1)	99.06(15)	O(11)-Na(2)-O(8)	93.15(13)
O(3)-Ni(1)-N(1)	80.91(13)	O(12)-Na(2)-O(8)	100.22(15)
N(1)-Ni(1)-O(9)	92.11(13)	O(12)-Na(2)-O(3)	167.38(15)
O(7)-Ni(1)-O(9)	91.98(12)	O(11)-Na(2)-O(3)	104.28(13)
N(2)-Ni(1)-O(9)	89.65(12)	O(11) ⁱⁱⁱ -Na(2)-O(3)	91.08(12)
O(3)-Ni(1)-O(9)	88.99(12)	O(8)-Na(2)-O(3)	77.96(11)
O(9)-Ni(1)-O(5) ⁱ	176.37(14)	O(4)-Na(2)-O(3)	52.24(12)
N(1)-Ni(1)-O(5) ⁱ	91.48(13)	O(10)-Na(1)-O(3)	175.06(14)
O(3)-Ni(1)-O(5) ⁱ	91.09(12)	O(10) ⁱⁱ -Na(1)-O(3)	97.01(13)
O(7)-Ni(1)-O(5) ⁱ	87.93(12)	O(9)-Na(1)-O(3)	71.61(11)
N(2)-Ni(1)-O(5) ⁱ	86.75(12)	O(8)-Na(1)-O(3)	79.55(11)
Ni(1)-O(7)-Na(1) ⁱ	155.24(17)	O(7) ^{iv} -Na(1)-O(3)	96.31(11)
Ni(1)-O(9)-Na(1)	100.42(12)	O(9)-Na(1)-O(8)	145.05(12)
Ni(1)-O(3)-Na(1)	98.29(13)	O(10) ⁱⁱ -Na(1)-O(8)	112.46(15)
Ni(1)-O(3)-Na(2)	153.54(15)	O(10) ⁱⁱ -Na(1)-O(9)	90.66(13)
Na(1) ⁱⁱ -O(10)-Na(1)	96.41(14)	O(9)-Na(1)-O(10)	113.31(13)
Na(2)-O(11)-Na(2) ⁱⁱⁱ	94.28(13)	O(10) ⁱⁱ -Na(1)-O(10)	83.59(14)
Na(1)-O(8)-Na(2)	106.33(14)	O(8)-Na(1)-O(10)	95.67(13)
Na(1)-O(3)-Na(2)	95.90(12)	O(7) ^{iv} -Na(1)-O(10)	81.72(11)
O(8)-Na(2)-O(11) ⁱⁱⁱ	168.37(15)	O(9)-Na(1)-O(7) ^{iv}	109.65(14)
O(12)-Na(2)-O(11) ⁱⁱⁱ	91.32(14)	O(10) ⁱⁱ -Na(1)-O(7) ^{iv}	158.43(16)
O(4)-Na(2)-O(11) ⁱⁱⁱ	86.52(12)	O(8)-Na(1)-O(7) ^{iv}	53.81(12)
O(11)-Na(2)-O(11) ⁱⁱⁱ	85.72(13)		

Table S2.- Selected bond length (Å) and angles (°) for compound 3

N(1)-Ni(2)	2.036(3)	Na(3)-Ow(2) ^v	2.449(4)
N(2)-Ni(2)	2.041(3)	Na(3)-O(3)	2.496(3)
N(3)-Ni(1)	2.045(3)	Na(3)-O(9) ⁱ	2.567(3)
Na(1)-Ow(6)	2.310(4)	Ni(1)-O(9)	2.037(3)
Na(1)-O(6)	2.347(3)	Ni(1)-O(9) ⁱ	2.037(3)
Na(1)-Ow(1) ⁱⁱ	2.409(3)	Ni(1)-N(3) ⁱ	2.045(3)
Na(1)-Ow(5)	2.430(4)	Ni(1)-Ow(3)	2.168(3)
Na(1)-O(5) ⁱⁱ	2.509(3)	Ni(1)-Ow(3) ⁱ	2.168(3)
Na(1)-O(5)	2.559(3)	Ni(2)-O(3)	2.024(3)
Na(2)-Ow(4)	2.334(3)	Ni(2)-O(5)	2.037(3)
Na(2)-Ow(5)	2.374(4)	Ni(2)-Ow(1)	2.129(3)
Na(2)-O(10)	2.396(3)	Ni(2)-O(11)	2.216(3)
Na(2)-O(4) ^{iv}	2.420(3)	O(4)-Na(2) ^{iv}	2.420(3)
Na(2)-Ow(6)	2.439(4)	O(5)-Na(1) ⁱⁱ	2.509(3)
Na(2)-O(9) ^{vi}	2.534(3)	O(9)-Na(2) ⁱⁱⁱ	2.534(3)
Na(3)-Ow(2)	2.361(3)	O(9)-Na(3) ⁱ	2.567(3)
Na(3)-O(4)	2.406(3)	Ow(1)-Na(1) ⁱⁱ	2.409(3)
Na(3)-Ow(3)	2.424(3)	Ow(2)-Na(3) ^v	2.449(4)
Ow(6)-Na(1)-O(6)	160.6(1)	O(3)-Na(3)-O(9) ⁱ	95.8(1)
Ow(6)-Na(1)-Ow(1) ⁱⁱ	90.9(1)	O(9)-Ni(1)-O(9) ⁱ	180.0(1)
O(6)-Na(1)-Ow(1) ⁱⁱ	108.5(1)	O(9)-Ni(1)-N(3) ⁱ	98.1(1)
Ow(6)-Na(1)-Ow(5)	85.9(1)	O(9) ⁱ -Ni(1)-N(3) ⁱ	81.6(1)
O(6)-Na(1)-Ow(5)	86.1(1)	O(9)-Ni(1)-N(3)	81.6(1)
Ow(1) ⁱⁱ -Na(1)-Ow(5)	110.8(1)	O(9) ⁱ -Ni(1)-N(3)	98.4(1)
Ow(6)-Na(1)-O(5) ⁱⁱ	97.2(1)	N(3) ⁱ -Ni(1)-N(3)	180.0(2)
O(6)-Na(1)-O(5) ⁱⁱ	89.9(1)	O(9)-Ni(1)-Ow(3)	93.4(1)
Ow(1) ⁱⁱ -Na(1)-O(5) ⁱⁱ	73.0(1)	O(9) ⁱ -Ni(1)-Ow(3)	86.6(1)
Ow(5)-Na(1)-O(5) ⁱⁱ	175.1(1)	N(3) ⁱ -Ni(1)-Ow(3)	91.4(1)
Ow(6)-Na(1)-O(5)	108.9(1)	N(3)-Ni(1)-Ow(3)	88.9(1)
O(6)-Na(1)-O(5)	53.9(1)	O(9)-Ni(1)-Ow(3) ⁱ	86.6(1)
Ow(1) ⁱⁱ -Na(1)-O(5)	150.9(1)	O(9) ⁱ -Ni(1)-Ow(3) ⁱ	93.4(1)
Ow(5)-Na(1)-O(5)	92.3(1)	N(3) ⁱ -Ni(1)-Ow(3) ⁱ	88.9(1)
O(5) ⁱⁱ -Na(1)-O(5)	83.2(1)	N(3)-Ni(1)-Ow(3) ⁱ	91.1(1)
Ow(4)-Na(2)-Ow(5)	88.6(1)	Ow(3)-Ni(1)-Ow(3) ⁱ	180.0
Ow(4)-Na(2)-O(10)	162.5(1)	O(3)-Ni(2)-O(5)	179.0(1)
Ow(5)-Na(2)-O(10)	108.8(1)	O(3)-Ni(2)-N(1)	81.8(1)
Ow(4)-Na(2)-O(4) ^{iv}	88.4(1)	O(5)-Ni(2)-N(1)	99.1(1)
Ow(5)-Na(2)-O(4) ^{iv}	109.7(1)	O(3)-Ni(2)-N(2)	97.8(1)
O(10)-Na(2)-O(4) ^{iv}	87.8(1)	O(5)-Ni(2)-N(2)	81.3(1)
Ow(4)-Na(2)-Ow(6)	88.9(1)	N(1)-Ni(2)-N(2)	178.2(2)
Ow(5)-Na(2)-Ow(6)	84.3(1)	O(3)-Ni(2)-Ow(1)	91.2(1)
O(10)-Na(2)-Ow(6)	90.5(1)	O(5)-Ni(2)-Ow(1)	89.3(1)
O(4) ^{iv} -Na(2)-Ow(6)	165.6(1)	N(1)-Ni(2)-Ow(1)	89.5(1)
Ow(4)-Na(2)-O(9) ^{vi}	108.8(1)	N(2)-Ni(2)-Ow(1)	92.2(1)
Ow(5)-Na(2)-O(9) ^{vi}	160.2(1)	O(3)-Ni(2)-O(11)	88.9(1)
O(10)-Na(2)-O(9) ^{vi}	53.7(1)	O(5)-Ni(2)-O(11)	90.7(1)
O(4) ^{iv} -Na(2)-O(9) ^{vi}	81.0(1)	N(1)-Ni(2)-O(11)	87.4(1)
Ow(6)-Na(2)-O(9) ^{vi}	86.5(1)	N(2)-Ni(2)-O(11)	90.9(1)
Ow(2)-Na(3)-O(4)	110.3(1)	Ow(1)-Ni(2)-O(11)	176.8(1)
Ow(2)-Na(3)-Ow(3)	91.8(1)	Ni(2)-O(3)-Na(3)	155.9(2)
O(4)-Na(3)-Ow(3)	145.9(1)	Na(3)-O(4)-Na(2) ^{iv}	102.9(1)
Ow(2)-Na(3)-Ow(2) ^v	82.6(1)	Ni(2)-O(5)-Na(1) ⁱⁱ	98.2(1)
O(4)-Na(3)-Ow(2) ^v	94.3(1)	Na(1) ⁱⁱ -O(5)-Na(1)	96.8(1)
Ow(3)-Na(3)-Ow(2) ^v	114.7(1)	Ni(2)-O(5)-Na(1)	152.7(1)
Ow(2)-Na(3)-O(3)	157.0(1)	Ni(1)-O(9)-Na(2) ⁱⁱⁱ	151.3(1)
O(4)-Na(3)-O(3)	54.0(1)	Ni(1)-O(9)-Na(3) ⁱ	100.5(1)

Ow(3)-Na(3)-O(3)	110.3(1)	Na(2) ⁱⁱⁱ -O(9)-Na(3) ⁱ	95.5(1)
Ow(2) ^v -Na(3)-O(3)	82.2(1)	Ni(2)-Ow(1)-Na(1) ⁱⁱ	98.8(1)
Ow(2)-Na(3)-O(9) ⁱ	97.9(1)	Na(3)-Ow(2)-Na(3) ^v	97.5(1)
O(4)-Na(3)-O(9) ⁱ	80.6(1)	Ni(1)-Ow(3)-Na(3)	101.4(1)
Ow(3)-Na(3)-O(9) ⁱ	70.6(1)	Na(2)-Ow(5)-Na(1)	94.2(1)
Ow(2) ^v -Na(3)-O(9) ⁱ	174.7(1)	Na(1)-Ow(6)-Na(2)	95.6(1)

Figure S1.- Pattern matching diagram corresponding to the mixture of phases 2 and 4

