

Supporting Information on

Structural characterisation of hypoxia-mimicking bioactive glasses

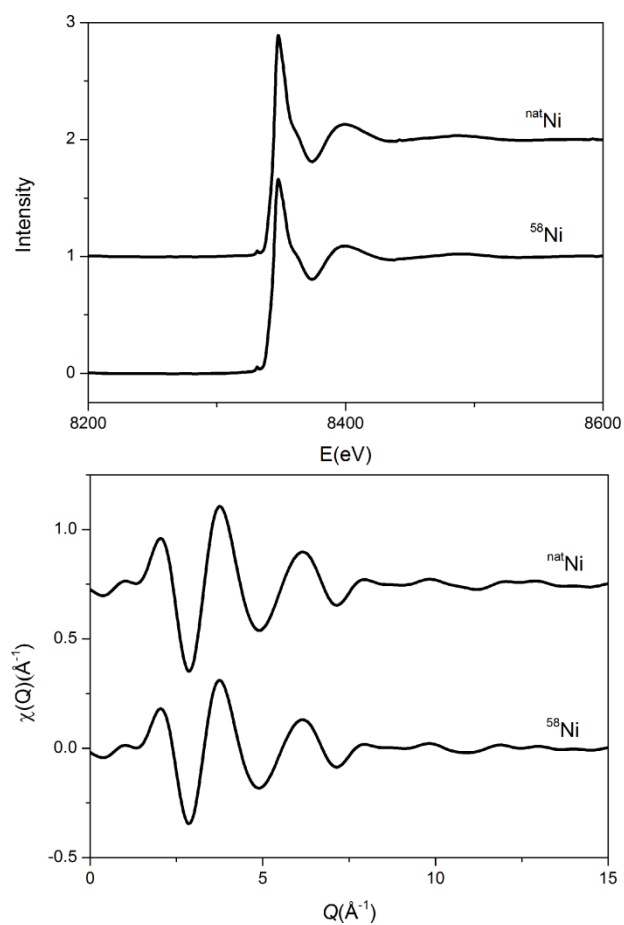


Figure S1. (a) Normalised EXAFS data for ⁵⁸Ni and ^{nat}Ni, (b) reciprocal space data. Data sets are offset for clarity.

Table S1. Weighting factors w_{ij} calculated using $w_{i \neq j} = 2c_i c_j b_i b_j$ and $w_{i=j} = c_i^2 b_i^2$ (equations 7 and 8). (barn = 10^{-28} m²).

	⁵⁸ Ni		natNi		⁶² Ni		58-62		58-nat		nat-62	
	(mbar n)	%	(mbar n)	%	(mbar n)	%	(mbar n)	(%)	(mbar n)	(%)	(mbar n)	(%)
Ni-O	12.5	4.7	9.0	3.4	-7.4	3.1	19.9	63.6	3.5	62.0	16.4	63.9
Ni-Ni												
Ca	1.7	0.6	1.2	0.5	-1.0	0.4	2.7	8.6	0.5	8.4	2.2	8.7
Ni-Na	2.4	0.9	1.7	0.7	-1.4	0.6	3.8	12.1	0.7	11.8	3.1	12.2
Ni-Si	2.6	1.0	1.9	0.7	-1.5	0.6	4.1	13.1	0.7	12.7	3.4	13.1
Ni-P	0.4	0.1	0.3	0.1	-0.2	0.1	0.6	1.8	0.1	1.8	0.5	1.8
Ni-Ni	0.4	0.1	0.2	0.1	0.1	0.1	0.3	0.8	0.2	3.3	0.1	0.3
Si-O	41.9	6	41.9	0	41.9	7	-	-	-	-	-	-
Si-Si												
Ca	5.7	2.1	5.7	2.2	5.7	2.4	-	-	-	-	-	-
Si-Na	8.0	3.0	8.0	3.0	8.0	3.4	-	-	-	-	-	-
Si-P	1.2	0.4	1.2	0.5	1.2	0.5	-	-	-	-	-	-
Si-Si	4.3	1.6	4.3	1.6	4.3	1.8	-	-	-	-	-	-
Ca-O		10.		10.		11.						
O	27.7	3	27.7	5	27.7	7	-	-	-	-	-	-
Ca-Na	5.3	2.0	5.3	2.0	5.3	2.2	-	-	-	-	-	-
Ca-P	0.8	0.3	0.8	0.3	0.8	0.3	-	-	-	-	-	-
Ca-Ca	1.9	0.7	1.9	0.7	1.9	0.8	-	-	-	-	-	-
Na-O		14.		14.		16.						
O	38.8	5	38.8	8	38.8	4	-	-	-	-	-	-
Na-P	1.1	0.4	1.1	0.4	1.1	0.5	-	-	-	-	-	-
Na-Na	3.7	1.4	3.7	1.4	3.7	1.6	-	-	-	-	-	-
P-O	5.8	2.2	5.8	2.2	5.8	2.5	-	-	-	-	-	-
P-P	0.1	0.0	0.1	0.0	0.1	0.0	-	-	-	-	-	-
O-O		38.		38.		43.						
	102.1	0	102.1	9	102.1	1	-	-	-	-	-	-