

Supplementary table 1 – Correspondence of model sample composition (proportion of hydroxyapatite and boric acid) and the average atomic number (Z).

Model Sample	Average Z
100% HAp	14.2
95HAp5HB	13.8
90HAp10HB	13.5
85HAp15HB	13.1
80HAp20HB	12.8
75HAp25HB	12.4
70HAp30HB	12.1
65HAp35HB	11.7
60HAp40HB	11.4
55HAp45HB	11.0
50HAp50HB	10.6
45HAp55HB	10.3
40HAp60HB	9.9
35HAp65HB	9.6
30HAp70HB	9.2
25HAp75HB	8.9
20HAp80HB	8.5
15HAp85HB	8.2
10HAp90HB	7.8
5HAp95HB	7.5
100%HB	7.1