

## **Supplementary information : A unified in vitro evaluation for apatite-forming ability of bioactive glasses and their variants.**

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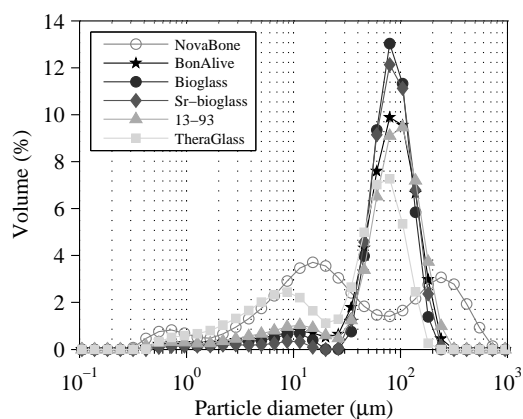
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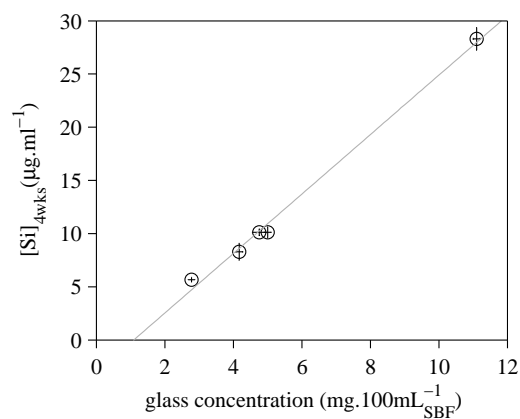
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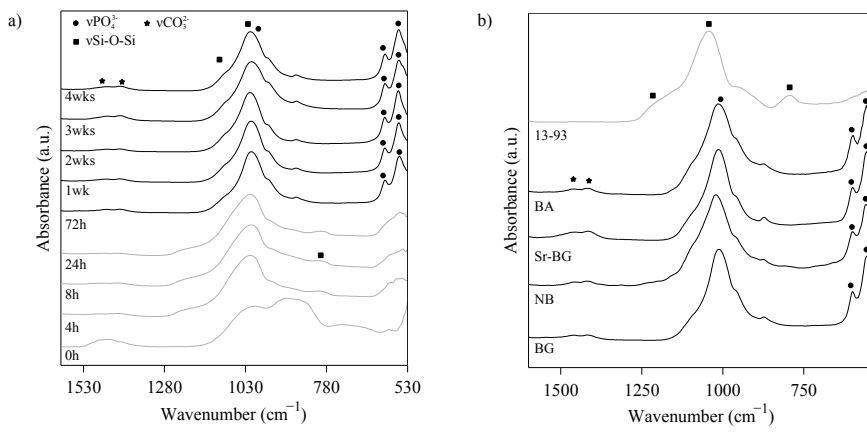
**Fig. 1** Particle size distribution of the bioactive glasses tested

**Table 1** Initial dissolution rate for silica, calcium and phosphorus obtained with the proposed ISO standard method and the TC04 method. Rate are given in  $\mu\text{g}\cdot\text{ml}^{-1}\cdot\text{h}^{-1}$

Entry	Silica		Calcium		Phosphorus	
	TC04	ISO	TC04	ISO	TC04	ISO
Bioglass	6.9	0.9	9.3	0.1	-0.3	-0.4
NovaBone	7.3	0.1	7.2	-1.1	-0.3	-0.6
13-93	12.1	1.1	7.5	1.0	-2.0	-0.4
BonAlive	12.5	1.2	6.1	0.2	-3.7	-0.4
Sr-bioglass	7.6	1.3	7.4	0.3	-1.1	0.9
Theraglass	15.6	-	53.3	-	-6.1	-



**Fig. 2** Correlation between the concentration of glass used in the proposed ISO standard and the silica concentration at 4 weeks of immersion in SBF,  $R^2=0.9946$ .



**Fig. 3** FTIR spectra of a) Bioglass (BG, 45-90 $\mu\text{m}$ ) at every time point considered in the proposed ISO standard method and b) all the different glasses after 72h immersion in SBF, which is the time point at which P-O bends were detected for BG.