7. Supplementary materials

Table S1 – Set of specimens and characterization techniques employed

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Hydrationª** | **XRD** | **FTIR** | **ICP-AES** | **SEM** | **TEM** | ***ex vivo*CTb** | ***ex vivo*CT** | ***in vivo*CT** |
| S1 | H | - | - | ✓ | - | - | C | - | - |
| S2 | H | - | - | ✓ | - | - | C | - | - |
| S3 | H | - | - | ✓ | - | - | C | - | - |
| S4 | H | - | - | ✓ | - | - | C | ✓ | - |
| S5 | H | ✓ | ✓ | ✓ | - | - | C | - | - |
| S6 | H | - | - | ✓ | - | - | C | - | - |
| S7 | R | ✓ | ✓ | ✓ | - | - | C | - | - |
| S8 | H | ✓ | ✓ | ✓ | - | - | C | - | - |
| S9 | H | - | - | ✓ | - | - | C | ✓ | - |
| S10 | H | - | - | ✓ | - | - | C | - | - |
| S11 | H | - | - | ✓ | - | - | C | - | - |
| S12 | H | - | - | ✓ | - | - | C | - | - |
| S13 | H | - | - | ✓ | - | - | C | ✓ | ✓ |
| S14 | H | - | - | ✓ | - | - | C | ✓ | ✓ |
| S15 | H | - | - | ✓ | - | - | C | ✓ | ✓ |
| S16 | H | ✓ | ✓ | ✓ | - | - | C | - | - |
| S17 | H | ✓ | ✓ | ✓ | - | - | C | - | - |
| S18 | R | - | - | ✓ | - | - | C | - | - |
| S19 | R | - | - | ✓ | - | - | C | - | - |
| S20 | H | - | - | ✓ | - | - | C | ✓ | - |
| S21 | H | - | - | ✓ | - | - | C | ✓ | - |
| S22 | R | ✓ | ✓ | ✓ | - | - | - | - | - |
| S23 | R | ✓ | ✓ | ✓ | - | - | C | - | - |
| S24 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S25 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S26 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S27 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S28 | H | ✓ | ✓ | ✓ | - | - | - | - | - |
| S29 | R | - | - | ✓ | - | - | C | - | - |
| S30 | H | ✓ | ✓ | ✓ | - | - | - | - | - |
| S31 | R | ✓ | ✓ | ✓ | - | - | C | - | - |
| S32 | R | - | - | ✓ | - | - | C | - | - |
| S33 | H | ✓ | ✓ | ✓ | - | - | N |  |  |
| S34 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S35 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S36 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S37 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S38 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S39 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S40 | H | ✓ | ✓ | ✓ | - | - | N | - | - |
| S41 | D | - | - | - | - | ✓ | - | - | - |
| S42 | D | - | - | - | ✓ | - | - | - | - |
| Saliva | - | - | ✓ |  | - | - | - | - | - |

a Hydration state of the specimens: D – dry, H – hydrated, R – Rehydrated

b*Ex vivo*CT acquisition calibration: C – calibrated, N – non-calibrated