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SUPPLEMENTARY INFORMATION

EVALUATION OF THE NANODEBRIS PRODUCED BY *IN VITRO* DEGRADATION OF TITANIUM-BASED DENTAL IMPLANTS IN THE PRECENCE OF BACTERIA USING SINGLE PARTICLE AND SINGLE CELL INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY.

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Deservation			
Parameter			
RF Power [W]	1550		
Coolant gas flow [L min ⁻¹]	14.0		
Auxiliary gas flow [L min ⁻¹]	0.8		
Carrier gas flow [L min ⁻¹]	0.8		
Cell gas flow [mL min ⁻¹]	0.31		
Q1 bias [V]	0		
Q _{cell} bias [V]	-5.94		
Q3 bias [V]	-12.0		
Q1 masses [u]	48 (⁴⁸ Ti ⁺) (Open in SQ-mode)		
Q3 masses [u]	64 (⁴⁸ Ti ¹⁶ O ⁺) or 27 (²⁷ Al ⁺) or 51 (⁵¹ V ⁺)		
Single cell mode			
Sheath gas flow [L min ⁻¹]	0.31		
Dwell time [ms]	5		
Sample flow rate [mL min ⁻¹]	0.01		
Run time [s]	120		

Table S1: Operating conditions of the iCAP TQ ICP-MS.

Concentration (g/L)	
NaCl	0.40
KCI	0.40
$CaCl_2 \cdot H_2O$	0.80
Na ₂ S·5H ₂ O	0.01
$CO(NH_2)_2$ (urea)	1.0

Table S2: (Composition	of the	artificial	saliva.
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Figure S1: Picture showing the pair of implants used for the incubations. I1 and I2 refer to Implant (1) (0.77 g) and Implant (2) (0.38 g).



Figure S2: Histograms that show the size distribution of the particles found in the incubation experiments of the implants. Histograms in the first raw correspond to Experiment 1; histograms in the second raw correspond to the results of Experiment 2. For details about both experiments refer to the main text and Figure 2