Supplementary Material (ESI) for Journal of Materials Chemistry

Supporting information

Electrochemistry-controlled metal ion release from silicone elastomer nanocomposites through combination of different metal nanoparticles

A. Hahn, S. Günther, P. Wagener, S. Barcikowski

Silver, copper and gold ion concentration was analysed by using a graphite platform atomic absorption spectrometer (nova 400, Analytik Jena). Eluates were analysed according to the thermal programs described in Table 1.

Settings were as follows:

Copper ion measurement:
Wavelength at 324.8 nm, 3.0 mA lamp current, 0.8 nm slit, and 20 µl sample volume. Calibration concentration was 10 µg/l.

Silver ion measurement:
Wavelength at 328.1 nm, 4.0 mA lamp current, 0.8 nm slit, and 20 µl sample volume. A modifier of 0.5% Palladium was used. Calibration concentration was 10 µg/l.

Gold ion measurement:
Wavelength at 242.8 nm, 5.0 mA lamp current, 0.8 nm slit, and 20 µl sample volume. Calibration concentration was 10 µg/l.

Table 1. Thermal programmes used for AAS

	Silver	Gold	Copper
Stages:	°C	°C	°C
Dry	90-350	90-350	90-250
Ash	850	850	900
Atom	1600	1850	1950
Clean	2300	2300	2300

All measurements were done in triplicate.