

Supplementary Information related to:

“Large antibiotic molecule diffusion in confined mesoporous silica with controlled morphology”

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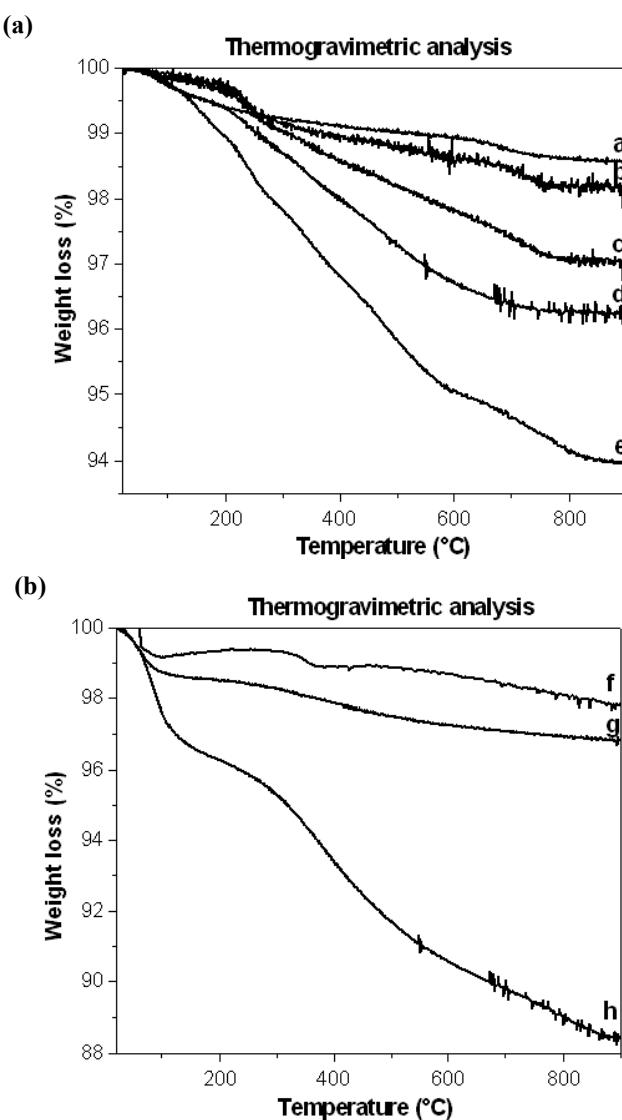


Figure S-1: Thermogravimetric analysis of the samples before and after the VAN uptake.
(a) Calcined L-COL-P123; (b) empty anodisc AAM-VAN; (c) CIRC-P123-VAN (d)
COL-CTAB-VAN; (e) L-COL-P123-VAN; (f) Calcined SBA-15 micro-spheres;
(g) SBA-fibers-VAN; (h) SBA-15 spheres-VAN.

	mg/g						
	Al	Si	Na	P	K	Mg	Ca
COL-CTAB	309,15	37,86	8,22	12,55	0,35	0,20	0,57
CIRC-P123	325,90	19,93	4,44	21,77	0,18	0,06	0,09
L-COL-P123	350,25	35,40	12,71	4,35	0,57	0,09	0,15
SBA-15 Fibers	-	309,20	44,72	0,95	1,43	0,59	1,42
SBA-15 Spheres	-	336,05	24,27	0,61	0,55	0,34	0,99

Table S-1: ICP elemental analysis on samples after 24 h of immersion in SBF without vancomycin. Fe was found in very small amount as an impurity.

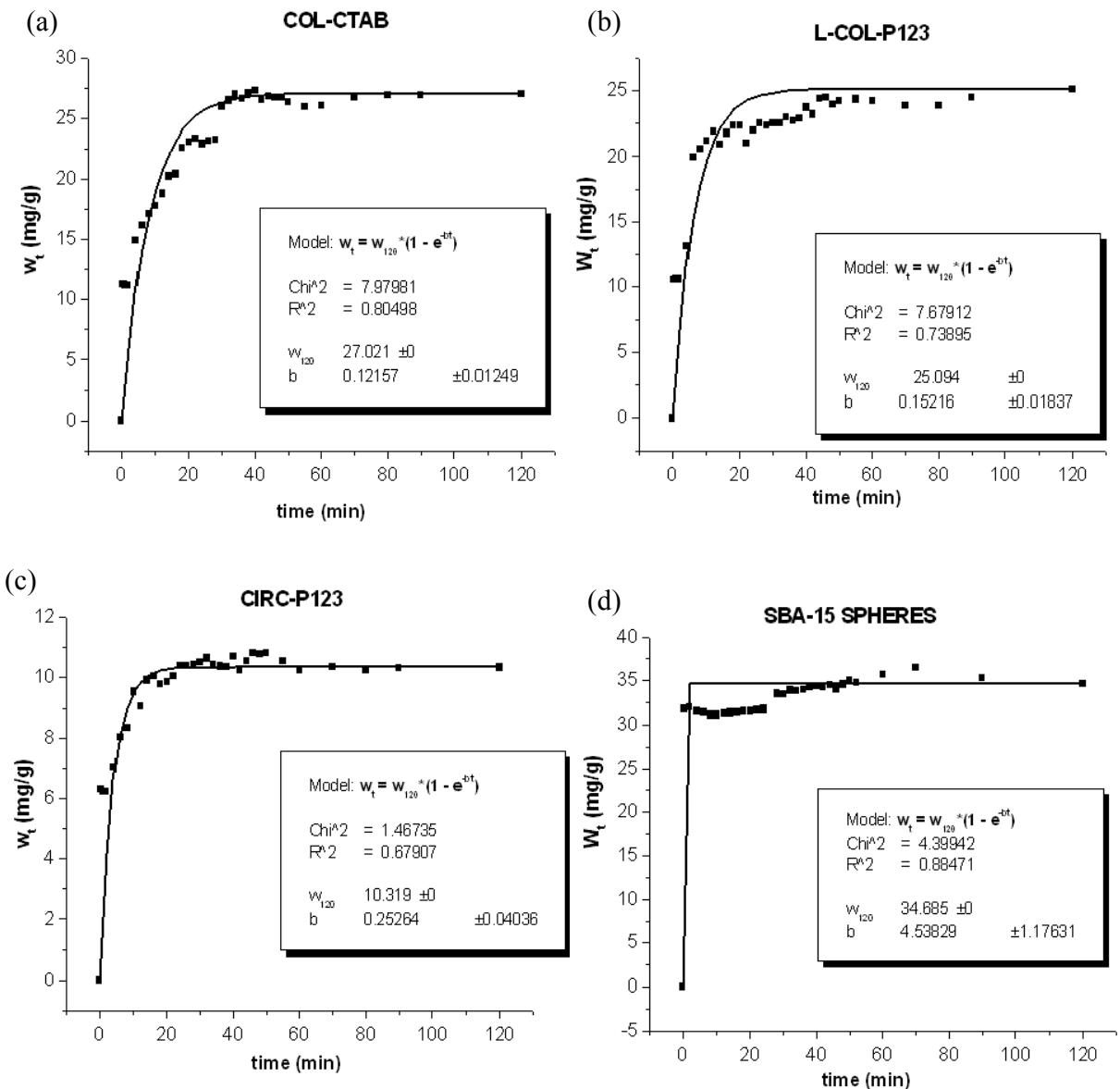


Figure S-2: The exponential decay fitting of the tour delivery profiles from:
 (a) COL-CTAB; (b) L-COL-P123; (c) CIRC-P123; (d) SBA-15 micro-spheres.
 The equation used and the obtained parameters are indicated in the insets (see also Table 4 in the article text).