

Table S1. Variance explained by the first eight principal components (PLS-PC) of the PLS-DA model calibrated for the discrimination of each experimental treatment (i.e. \pm SPs and glucose (Glc) or phenanthrene (Phe)) based on FT-Raman spectra of *Pseudomonas putida*. The number of components for each model was chosen based on the minimal RMSEP and maximal R² values.

	PLS-PC1	PLS-PC2	PLS-PC3	PLS-PC4	PLS-PC5	PLS-PC6	PLS-PC7	PLS-PC8
FT-Raman	10.60	6.49	8.64	2.87	1.45	1.34	4.04	1.64
FTIR	9.36	3.92	4.75	2.28	3.07	0.94	8.73	5.26