

Table S1. PCA-DA results using all sensors data.

Calibration (72 samples)						Prediction (48 samples)							
	Blank	1	2	3	—	Accuracy		Blank	1	2	3	—	Accuracy
Blank	17	1	0	0	0		Blank	11	1	0	0	0	
1	0	$\frac{1}{7}$	1	0	0	95.83%	1	0	$\frac{1}{2}$	0	0	0	95.83%
2	0	0	$\frac{1}{7}$	1	0		2	0	0	$\frac{1}{1}$	1	0	
3	0	0	0	$\frac{1}{8}$	0		3	0	0	0	$\frac{1}{2}$	0	

Table S2. PCA-DA results using feature sensors data.

Calibration (72 samples)						Prediction (48 samples)							
	Blank	1	2	3	—	Accuracy		Blank	1	2	3	—	Accuracy
Blank	18	0	0	0	0		Blank	12	0	0	0	0	
1	0	$\frac{1}{8}$	0	0	0	97.22%	1	0	$\frac{1}{2}$	0	0	0	100%
2	0	1	$\frac{1}{6}$	1	0		2	0	0	$\frac{1}{2}$	0	0	
3	0	0	0	$\frac{1}{8}$	0		3	0	0	0	$\frac{1}{2}$	0	

Table S3. Classification results using PLS-DA algorithm using all sensor data.

Calibration (72 samples)						Prediction (48 samples)							
	Blank	1	2	3	—	Accuracy		Blank	1	2	3	—	Accuracy
Blank	18	0	0	0	0	100%	Blank	11	0	0	0	1	93.75%
1	0	18	0	0	0		1	0	11	0	0	1	

2	0	0	18	0	0	2	0	0	11	0	1
3	0	0	0	18	0	3	0	0	0	12	0

Table S4. Classification results using PLS-DA algorithm using feature sensors data

Calibration (72 samples)						Prediction (48 samples)							
	Blank	1	2	3	—	Accuracy		Blank	1	2	3	—	Accuracy
Blank	18	0	0	0	0		Blank	12	0	0	0	0	
1	0	16	0	0	2	95.83%	1	0	12	0	0	0	100%
2	0	0	17	0	1		2	0	0	12	0	0	
3	0	0	0	18	0		3	0	0	0	12	0	