

## Supporting Information

**Table S1** The sequences of DNA oligonucleotides.

Name	Sequences (5' to 3')
Apt 1	TGGGGGTTGAGGCTAAGCCGA
cDNA	TCGGCTTAGCCTCAACCCCA
Cy5-Apt 2	GGGACTTGGTTTAGGTAATGAGTCCC

**Table S2** Recovery analysis of the Kana and Tob detection in milk.

Analyte	Samples	Added concentration (nM)	Found concentration (nM)	Recovery (%)	Relative standard deviation (%)
Kana	1	500	474	94.8	0.9
	2	1000	1048	104.8	0.9
	3	1500	1487	99.1	5
Tob	1	100	112	112	1
	2	500	461	92.2	1.5
	3	800	821	102	1.6