S4 Table. Detection performance of LAMP-LFB assay for *C. perfringens* detection compared with culture-based method in naturally contaminated food samples.

Method	Culture-based method		SE (%)	SP (%)	κ (%)
	Positive	Negative	(95% CI)	(95% CI)	(95% CI)
LAMP-LFB					
Positive	44 (TP)	2 (FP)	88.0	95.5	0.832
Negative	6 (FN)	43 (TN)	(75.6-95.4)	(84.8-99.4)	(0.721-0.943)

TP: True positive; TN: True negative; FP: False positive; FN: False negative

Sensitivity (SE) = (TP/TP+FN) ×100

Specificity (SP) = (TN/TN+FP) ×100

Cohen's kappa coefficient (κ) = 2× [(TP×TN) - (FN×FP)] / [(TP+FP) × (FP+TN)] + [(TP+FN) × (FN+TN)]

The κ ranged from 0-1, which defined as follow: ≤ 0.20 poor agreement, $0.21 < \kappa \leq 0.40$ fair agreement, $0.41 < \kappa \leq 0.60$ moderate agreement, $0.61 < \kappa \leq 0.80$ good agreement and ≥ 0.81 very good agreement