

Additional file 4 - Information about foodborne bacteria, culture media, incubation conditions, and PCR-based kits used in this study

Foodborne pathogen*			Enrichment Media		PCR-based (BAX) Kit	Chromogenic Media (37°C for 24-48 h)
Genus and species	Serovar/Strain	Origin	Primary enrichment / Incubation conditions	Secondary enrichment / Incubation conditions		
<i>Salmonella enterica</i>	Schwarzengrund / SAL3542	Alimentary canal of <i>Lucilia cuprina</i>	BPW (pre-warmed at 42°C) / Recirculating water bath at 42.5°C for 22-24 h	Transfer 100 µl of primary enriched sample to 400 µl of Brain-heart infusion (BHI) broth (pre-warmed at 37°C) / 37°C for 3 h	<i>Salmonella 2</i> (standard assay)	<i>Salmonella</i> chromogenic agar with selective supplement (Oxoid, Cambridge, UK)
<i>Listeria monocytogenes</i>	4b / LIS0150	Alimentary canal of <i>Lucilia cuprina</i>	24 <i>Listeria</i> Enrichment Broth (24 LEB) with selective supplement (freshly prepared and at room-temperature; Oxoid, Cambridge, UK) / 37°C for 44±5 h	Not applicable	<i>L. monocytogenes</i> (24E assay)	RAPID' <i>L.mono</i> agar (Bio-Rad Laboratories, Hercules, CA)
<i>Cronobacter sakazakii</i>	O2 / Md5g aka ENTB0353	Alimentary canal of <i>Musca domestica</i>	BPW with 10 mg/L of Novobiocin (pre-warmed at 37°C) / 37°C for 22-26 h	Transfer 100 µl of primary enriched sample to 400 µl of BHI broth (pre-warmed at 37°C) / 37°C for 3 h	<i>E. sakazakii</i> (standard assay; used to detect <i>C. sakazakii</i>)	Brilliance <i>Cronobacter</i> agar (aka Druggan-Forsythe-Iversen formulation-DFI; Oxoid, Cambridge, UK)
<i>Escherichia coli</i>	O157:H7 / ESC0786	Spinach	BAX System <i>E. coli</i> O157:H7 MP media broth (pre-warmed at 42°C; DuPont Qualicon, Wilmington, DE) / 42±1°C for 18-24 h	Not applicable	<i>E. coli</i> O157:H7 MP (standard assay)	R & F <i>E. coli</i> O157:H7 chromogenic plating medium (R & F Laboratories, Downers Grove, IL)

*Bacterial strains were provided by U.S. Food and Drug Administration, Center for Food Safety and Applied Nutrition (FDA/CFSAN)