

1 Supplementary Table 1: Specificity results of multiplex real-time PCR assay

S. enterica subsp. enterica serovar (Source)	No. of Strains Tested	S. Typhi multiplex qPCR	S. Paratyphi A multiplex qPCR	S. spp multiplex qPCR
Multiple <i>Salmonella</i> Typhi strains and clinical isolates (FNRC-ESS; WHO-SALM)	90	+	-	+
Multiple <i>Salmonella</i> Paratyphi A strains and clinical isolates (FNRC-ESS; WHO-SALM)	33	- (+)	+	+
Blegdam (WHO-SALM)	1	-	-	+
Blockley (WHO-SALM)	1	-	-	+
Canada (WHO-SALM)	1	-	-	+
Choleraesuis var. Decatur (WHO-SALM)	1	-	-	+
Dublin (WHO-SALM)*	1	- (+)	-	+
Emek (WHO-SALM)	1	-	-	+
Enteritidis (WHO-SALM)*	1	- (+)	-	+
Indiana (WHO-SALM)	1	-	-	+
Manhattan (WHO-SALM)	1	-	-	+
Mbandaka (WHO-SALM)	1	-	-	+
Mikawasima (WHO-SALM)	1	-	-	+
Muenchen (WHO-SALM)	1	-	-	+
Nitra (WHO-SALM)	1	-	-	+
Paratyphi B (WHO-SALM)	2	-	-	+
Paratyphi C (WHO-SALM)	1	-	-	+
Typhimurium (WHO-SALM)	1	-	-	+
Others species				
<i>Enterobacter cloacae</i> sbsp. <i>Cloacae</i> (CIP)	1	-	-	-
<i>Escherichia coli</i> (FNRC-ESS)*	3	-	-	- (+)
<i>Escherichia vulneris</i> (CIP)	1	-	-	-
<i>Neisseria meningitidis</i> (FNRC-Neisseria)	1	-	-	-
<i>Serratia marcescens</i> (CIP)	1	-	-	-
<i>Shigella dysenteriae</i> (FNRC-ESS; CIP)	2	-	-	-
<i>Shigella flexneri 2a</i> (FNRC-ESS)	1	-	-	-
<i>Staphylococcus aureus</i> (CIP)	1	-	-	-
<i>Staphylococcus epidermidis</i> (CIP)	1	-	-	-
<i>Streptococcus agalactiae</i> (CIP)	1	-	-	-
<i>Streptococcus pneumoniae</i> (CIP)	1	-	-	-
<i>Streptococcus pyogenes</i> (CIP)	1	-	-	-
<i>Budvicia aquatica</i> (CIP)	1	-	-	-
<i>Citrobacter freundii</i> (CIP)	1	-	-	-
<i>Citrobacter gillenii</i> (CIP)	1	-	-	-
<i>Citrobacter koseri</i> (CIP)	1	-	-	-
<i>Citrobacter youngae</i> (CIP)	1	-	-	-
<i>Enterobacter cloacae</i> sbsp. <i>dissolvens</i> (CIP)	1	-	-	-
<i>Enterobacter sakasaki</i> (CIP)*	1	-	-	- (+)
<i>Escherichia albertii</i> (CIP)	1	-	-	-
<i>Escherichia hermanii</i> (CIP)	1	-	-	-
<i>Ewingella americana</i> (CIP)	1	-	-	-
<i>Hafnia alvei</i> (CIP)	1	-	-	-
<i>Klebsiella oxytoca</i> (CIP)	1	-	-	-

<i>Klebsiella pneumoniae</i> sbsp. <i>Pneumoniae</i> (CIP)	1	-	-	-
<i>Klebsiella pneumoniae</i> sbsp. <i>rhinoscleromatis</i> (CIP)	1	-	-	-
<i>Leclercia adercarboxycola</i> (CIP)	1	-	-	-
<i>Proteus mirabilis</i> (CIP)	1	-	-	-
<i>Plesiomonas shigelloides</i> (CIP)	1	-	-	-
<i>Pectobacterium atrosepticum</i> (CIP)	1	-	-	-
<i>Raoultella planticola</i> (CIP)	1	-	-	-
<i>Rahnella aquatilis</i> (CIP)	1	-	-	-
<i>Serratia fonticola</i> (CIP)	1	-	-	-
<i>Xenorhabdus japonica</i> (CIP)*	1	-	-	- (+)
<i>Yersinia enterocolitica</i> sbsp. <i>enterocolitica</i> (CIP)	1	-	-	-
<i>Yersinia pseudotuberculosis</i> sbsp. <i>Pseudotuberculosis</i> (CIP)	1	-	-	-

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3 FNRC-ESS, French National Reference Center for *Escherichia coli-Shigella-Salmonella*, Institut Pasteur;

4 WHO-Salm, World Health Organization collaborative center for reference and research on

5 *Salmonella*, Institut Pasteur; CIP= Collection de l'Institut Pasteur; FNRC-Neisseria=French National

6 Reference Center for *Neisseria*. (*) = cross-detection observed for some strains at high DNA

7 concentration (negative when 10X/100X diluted) with Ct Value > 33.5.

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