

Supplementary Table 1. Summary of matrices tested, requested pathogens and testing, and test methods used from 2 case investigations.

Case investigation	Source	Matrix	Requested testing	Method
1	Cats 1–4	Feces	<i>Salmonella</i> sp. screening‡	Enriched culture and MALDI-TOF MS (Bruker Daltonics, Billerica, MA) confirmed
			<i>Listeria</i> sp. screening‡	Enriched culture
	Feces	<i>Salmonella</i> isolate	MIC‡, serotyping‡, whole genome sequencing (WGS)‡	Sensititre companion animal MIC plate (Thermo Fisher Scientific, Waltham, MA); <i>Salmonella</i> In Silico Typing Resource (SISTR); Nextera XT library preparation kit (Illumina, San Diego, CA) and MiSeq v2 (250×250) reagent kit (Illumina)
	Food 1† ^A and foods 2–6* ^B	Raw pet foods	<i>Salmonella</i> sp. screening§	VIDAS (bioMérieux, Durham, NC) <i>Salmonella</i> screen (AOAC OMA 2004.03 ²) and culture confirmed (FDA BAM <i>Salmonella</i> ¹)
			<i>Listeria</i> sp. screening§	VIDAS (bioMérieux) <i>Listeria</i> sp. screen (AOAC OMA 999.06 ²) and culture confirmed (FDA BAM <i>Listeria</i> ⁴)
	Food	<i>Salmonella</i> isolates	Serotyping‡, WGS‡	Same as case 1 feces isolates
<i>Listeria</i> isolates		WGS‡	Same as case 1 feces isolates	
2	Dog 1	Tissue	<i>Salmonella</i> culture and aerobic culture ¹	Enriched culture (<i>Salmonella</i>); direct culture (<i>Escherichia coli</i>); both were MALDI-TOF MS (Vitek MS, bioMérieux) confirmed
	Tissue	<i>Salmonella</i> and <i>E. coli</i> isolates	Serotyping‡, WGS‡	Same as case 1 feces isolates

Foods 7† ^C , 8* ^C , and 9† ^C	Raw pet foods	<i>Salmonella</i> , <i>E. coli</i> , and <i>Listeria</i> culture#	Culture by FDA BAM for <i>Salmonella</i> , ¹ <i>E. coli</i> , ³ and <i>Listeria</i> , ⁴ respectively
Food	<i>Salmonella</i> isolates	Serotyping#, WGS#	Serotyping by FDA BAM for <i>Salmonella</i> ¹ ; WGS as previously described ⁵
	<i>E. coli</i> and <i>Listeria</i> isolates	WGS#	WGS as previously described ⁵

A, B, C = manufacturer A, B, and C, respectively.

* Purchased food.

† Food collected from complainant.

‡ Performed by the Animal Disease Diagnostic Laboratory of the Ohio Department of Agriculture.

§ Performed by Consumer Protection Laboratory of the Ohio Department of Agriculture.

¶ Performed by the Athens Veterinary Diagnostic Laboratory at the University of Georgia College of Veterinary Medicine.

Performed by the FDA Office of Regulatory Affairs Laboratory. WGS results were uploaded to GenBank

(<https://www.ncbi.nlm.nih.gov/genbank/>).

¶¶ *Salmonella* In Silico Typing Resource (<https://lfz.corefacility.ca/sistr-app/>).

References

1. Andrews WH, et al. Chapter 5: *Salmonella*. In: Bacteriological Analytical Manual. Online edition. Silver Spring, MD: US FDA, 2018.

2. AOAC International. Official Methods of Analysis. 17th ed. Gaithersburg, MD: AOAC International, 2000. Method 999.06-Listeria in Foods.
3. Ephros M, et al. Encephalopathy associated with enteroinvasive *Escherichia coli* 0144:NM infection. J Clin Microbiol 1996;34:2432–2434.
4. Grimont PAD, Weill F. Antigenic formulae of the *Salmonella* serovars. 9th ed. Paris: Institut Pasteur, 2007.
5. Rusconi B, et al. Whole genome sequencing for genomics-guided investigations of *Escherichia coli* O157:H7 outbreaks. Front Microbiol 2016;7:985.

Supplementary Table 2. The phenotypic and genotypic antimicrobial resistance patterns of *Salmonella enterica* subsp. *enterica* serovar Reading isolated from a cat and the raw pet food it was consuming.

Antimicrobial agent	Cat 1			Food 2 genotypic resistance gene	
	Fecal phenotypic interpretation	Fecal phenotypic MIC*	Fecal genotypic resistance genes	OH-16-8884-8	OH-16-8884-7
Amikacin	S	≤4		<i>aph(3'')-Ib</i> †, <i>aph(6)-Id</i> †	
Amoxicillin–clavulanic acid	S	1	<i>golS</i> †	<i>golS</i> †	<i>golS</i> †
Ampicillin	S	1	<i>golS</i> †	<i>golS</i> †	<i>golS</i> †
Cefazolin	S	2			
Cefovecin	S	2			
Cefoxitin	S	4			
Cefpodoxime	S	≤2			
Cephalothin	S	4			
Chloramphenicol	S	8	<i>golS</i> †	<i>golS</i> †	<i>golS</i> †
Clindamycin	R	>4			
Doxycycline	S	≤2		<i>tet(A)</i>	
Enrofloxacin	S	≤0.25			
Erythromycin	R	>4			
Gentamicin	S	≤1		<i>aph(3'')-Ib</i> †, <i>aph(6)-Id</i> †	
Imipenem	S	≤1			
Marbofloxacin	S	≤0.25			
Oxacillin + 2% NaCl	R	>4	<i>golS</i> †	<i>golS</i> †	<i>golS</i> †
Penicillin	R	>8	<i>golS</i> †	<i>golS</i> †	<i>golS</i> †

Whole genome sequencing to confirm pet foodborne illness

Ticarcillin	S	≤8	<i>golS</i> †	<i>golS</i> †	<i>golS</i> †
Ticarcillin–clavulanic acid	S	≤8	<i>golS</i> †	<i>golS</i> †	<i>golS</i> †
Trimethoprim–sulfamethoxazole	S	≤0.5		<i>sul2</i> ‡	

R = resistant; S = susceptible.

* Sensititre companion animal MIC plate (Thermo Fisher Scientific, Waltham, MA), expressed as µg/mL.

† ColpVC plasmid containing *golS* gene.

‡ IncQ1 plasmid containing the *aph(3'')-Ib*, *aph(6)-Id*, and *sul2* genes.