

Table S1. PA strain information

Strain Name^a	Clade^b	stx Allele(s)	Genome accession^d	Phage accession^e
PA2	8	<i>stx2a</i>	AOEL00000000	KP682371
PA3	8	<i>stx2a, stx2c</i>	AKLC01000000	
PA4	2.9	<i>stx1a, stx2a</i>	AMUA01000000	KP682372
PA5	2.9	<i>stx1a, stx2a</i>	AKLD01000000	KP682373
PA7	2.9		AMTQ00000000	
PA8	8	<i>stx2a</i>	AOEO00000000	KP682374
PA9	8	<i>stx2a</i>	AKLE01000000	
PA10	6	<i>stx2c</i>	AKLF01000000	
PA11	2.9	<i>stx2a</i>	AOEI00000000	KP682375
PA12	2.9	<i>stx1a, stx2a</i>	<i>This study</i>	KP682376
PA13	8	<i>stx2a, stx2c</i>	AOEK00000000	
PA14	2.9	<i>stx1a, stx2a</i>	AKLG01000000	
PA15	2.9	<i>stx1a, stx2a</i>	AKLH01000000	
PA16	2.9	<i>stx1a, stx2a</i>	<i>This study</i>	KP682377
PA17	2.9	<i>stx1a, stx2a</i>	<i>This study</i>	
PA18	*	<i>stx1a, stx2a</i>	<i>This study</i>	KP682378
PA19	8	<i>stx2a</i>	AOEJ00000000	
PA21	*	<i>stx1a, stx2a</i>	<i>This study</i>	KP682379
PA22	5.2	<i>stx1a, stx2c</i>	AKLI00000000	
PA23	2.9	<i>stx1a, stx2a</i>	AMUB01000000	
PA24	8	<i>stx1a</i>	AKLJ01000000	
PA25	8	<i>stx2a</i>	AKLK01000000	
PA27	2.9	<i>stx1a, stx2a</i>	<i>This study</i>	KP682380
PA28	8	<i>stx2a, stx2c</i>	AKLL01000000	KP682381
PA29	2.9	<i>stx1a, stx2a</i>	<i>This study</i>	KP682382
PA30	*	<i>stx1a, stx2a</i>	<i>This study</i>	KP682383
PA31	2.9	<i>stx1a, stx2a</i>	AKLM01000000	
PA32	2.9	<i>stx2a</i>	AKLN01000000	KP682384
PA33	2.9	<i>stx1a, stx2a^c</i>	AKLO01000000	KP682385
PA34	8	<i>stx2a</i>	AMTR01000000	
PA35	8	<i>stx2a, stx2c</i>	AOES00000000	
PA36	2.9	<i>stx1a, stx2a</i>	<i>This study</i>	KP682386
PA38	6	<i>stx2c</i>	AMUO01000000	
PA39	8	<i>stx2a, stx2c</i>	AKLP01000000	
PA40	7	<i>stx2c</i>	AKLQ00000000	
PA41	7	<i>stx1a, stx2c</i>	AKLR01000000	
PA42	2.4	<i>stx1a, stx2a</i>	AKLS01000000	KP682387
PA44	2.9	<i>stx1a, stx2a</i>	<i>This study</i>	KP682388
PA45	2.4	<i>stx1a, stx2a</i>	AMUD01000000	KP682389
PA47	8	<i>stx2a, stx2c</i>	AOEM00000000	
PA48	9	<i>stx1a, stx2c</i>	AOEN01000100	
PA49	2.9	<i>stx1a, stx2a</i>	AMUC01000000	
PA50	*	<i>stx1a, stx2a</i>	<i>This study</i>	KP682390

PA51	*	<i>stx1a, stx2a</i>	<i>This study</i>	KP682391
PA52	*	<i>stx1a, stx2a</i>	<i>This study</i>	KP682392

^a For all 45 isolates, the date and geographic location of isolation, PFGE pattern and LSPA type were previously reported by Hartzell *et al.* (2011).

^b Clade types were determined *in silico* or reported previously (Hartzell *et al.*, 2011). * Unable to assign a clade because of missing SNP positions due to sequence quality.

^c Strain PA33 was previously reported as an “*stx2* variant” (Hartzell *et al.* 2011). However, the phage genome sequence reported here identified it as *stx2a*.

^d For isolates previously sequenced, GenBank accession numbers are reported. The 13 isolates sequenced during this study were submitted to the Short Read Archive under Bioproject PRJNA274145.

^e GenBank accession numbers for phage sequenced in this study.