

SUPPLEMENTAL FIGURE LEGENDS

Figure S1. Comparison of the level of STEC O157 carriage among individual steers. STEC O157 CFU per RAJ swab during all four 56-day trials were converted to single \log_{10} AUC values for each steer. Bars represent least squares mean \log_{10} AUC and error bars indicate SEM.

Figure S2. Comparison of clinical and bovine STEC O157 strain colonization of experimental steers in the four seasonal trials. In each trial, steers were challenged with equal numbers of four different STEC O157 genotypes, including two clinical strains (C1 and C2, clinical genotypes) and two bovine strains (B1 and B2, bovine-biased genotypes). \log_{10} CFU of clinical and bovine strains recovered from RAJ swab samples on each sampling day for each of the four trials [HS (high dose, summer), HW (high dose, winter), LS (low dose, summer) and LW (low dose, winter)].

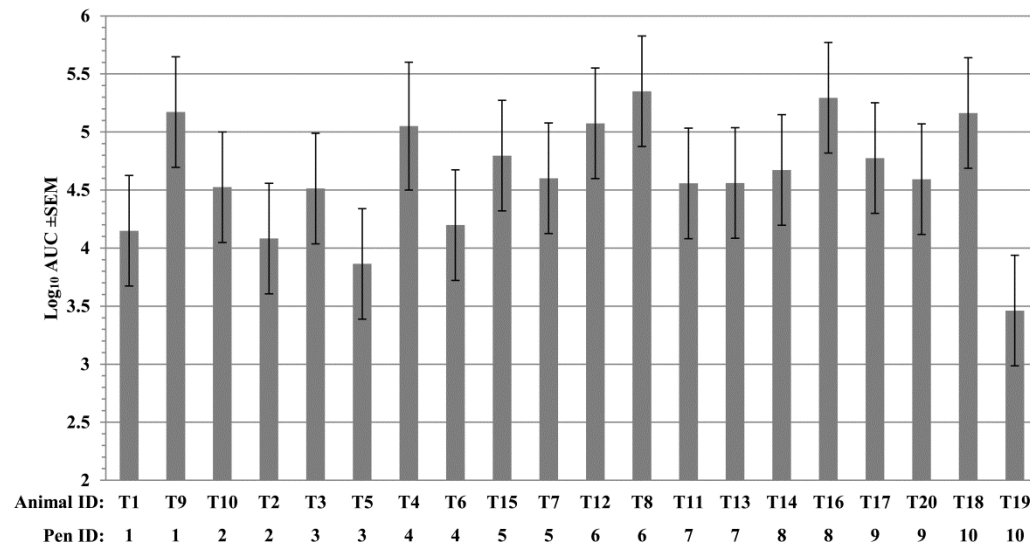


Figure S1. Comparison of the level of STEC O157 carriage among individual steers. STEC O157 CFU per RAJ swab during all four 56-day trials were converted to single log₁₀ AUC values for each steer. Bars represent least squares mean Log₁₀ AUC and error bars indicate SEM.

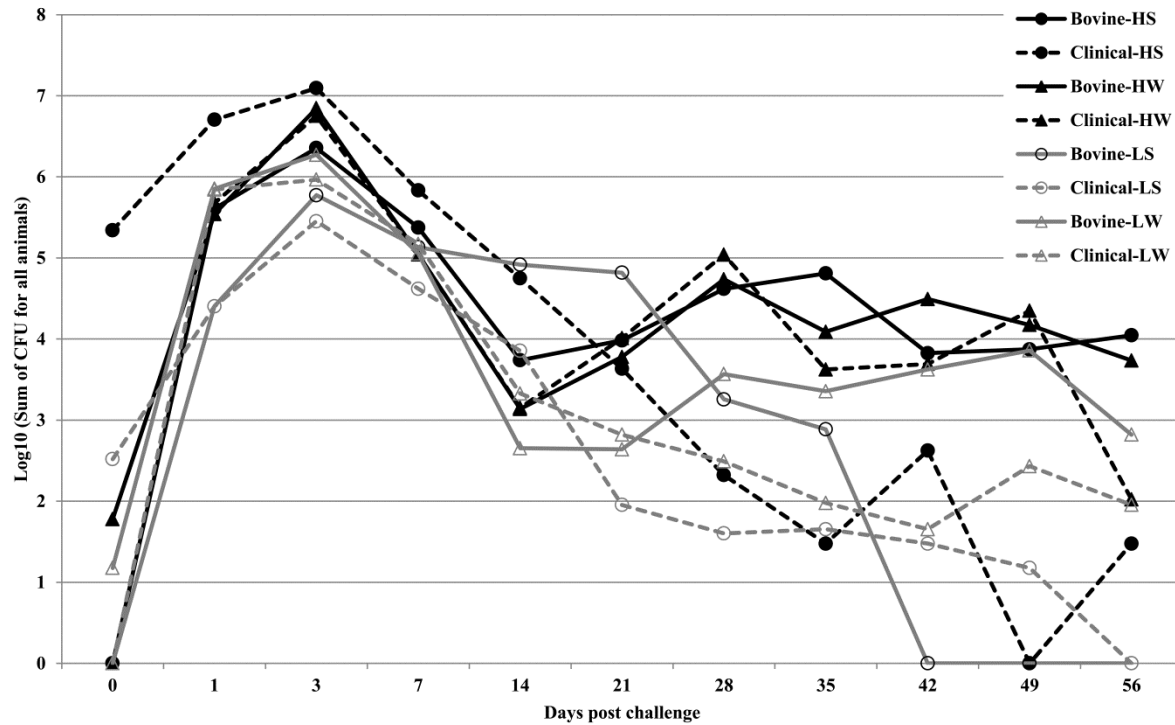


Figure S2. Comparison of clinical and bovine STEC O157 strain colonization of experimental steers in the four seasonal trials. In each trial, steers were challenged with equal numbers of four different STEC O157 genotypes, including two clinical strains (C1 and C2, clinical genotypes) and two bovine strains (B1 and B2, bovine-biased genotypes). Log₁₀ CFU of clinical and bovine strains recovered from RAJ swab samples on each sampling day for each of the four trials [HS (high dose, summer), HW (high dose, winter), LS (low dose, summer) and LW (low dose, winter)].

Table S1- RAJ swab CFU and colony genotypes

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T1	1	High	Summer	Oral	0	0	0	0	0	0
T1	1	High	Summer	Oral	1	87000	5	1	5	1
T1	1	High	Summer	Oral	3	291000	4	0	2	6
T1	1	High	Summer	Oral	7	60	2	0	0	0
T1	1	High	Summer	Oral	14	0	0	0	0	0
T1	1	High	Summer	Oral	21	0	0	0	0	0
T1	1	High	Summer	Oral	28	0	0	3	0	0
T1	1	High	Summer	Oral	35	0	0	0	0	0
T1	1	High	Summer	Oral	42	0	0	0	0	0
T1	1	High	Summer	Oral	49	0	0	0	0	0
T1	1	High	Summer	Oral	56	0	0	0	0	0
T10	2	High	Summer	Oral	0	0	0	0	0	0
T10	2	High	Summer	Oral	1	3360	3	1	7	1
T10	2	High	Summer	Oral	3	18600	1	0	4	7
T10	2	High	Summer	Oral	7	60	0	0	1	1
T10	2	High	Summer	Oral	14	0	0	0	0	0
T10	2	High	Summer	Oral	21	210	0	0	0	9
T10	2	High	Summer	Oral	28	390	0	0	0	12
T10	2	High	Summer	Oral	35	1200	0	0	0	9
T10	2	High	Summer	Oral	42	15	0	0	0	3
T10	2	High	Summer	Oral	49	0	0	0	0	0
T10	2	High	Summer	Oral	56	0	0	0	0	0
T12	6	High	Summer	Oral	0	15	0	2	0	0
T12	6	High	Summer	Oral	1	183000	4	0	6	2
T12	6	High	Summer	Oral	3	534000	2	0	4	6
T12	6	High	Summer	Oral	7	540	7	0	0	5
T12	6	High	Summer	Oral	14	0	0	0	0	0
T12	6	High	Summer	Oral	21	0	0	0	0	0
T12	6	High	Summer	Oral	28	0	0	0	0	0
T12	6	High	Summer	Oral	35	0	0	0	0	0
T12	6	High	Summer	Oral	42	0	0	0	0	0
T12	6	High	Summer	Oral	49	0	0	0	0	0
T12	6	High	Summer	Oral	56	0	0	0	0	0
T17	9	High	Summer	Oral	0	0	0	0	0	0
T17	9	High	Summer	Oral	1	4680000	0	12	0	0
T17	9	High	Summer	Oral	3	48000	3	3	2	4

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T17	9	High	Summer	Oral	7	6300	1	2	0	9
T17	9	High	Summer	Oral	14	180	0	0	0	7
T17	9	High	Summer	Oral	21	7200	0	0	0	12
T17	9	High	Summer	Oral	28	35100	0	0	0	12
T17	9	High	Summer	Oral	35	9000	0	0	0	12
T17	9	High	Summer	Oral	42	5700	0	0	0	12
T17	9	High	Summer	Oral	49	6900	0	0	0	12
T17	9	High	Summer	Oral	56	4800	0	0	0	12
T2	2	High	Summer	Oral	0	120	0	5	0	0
T2	2	High	Summer	Oral	1	7400	3	7	1	1
T2	2	High	Summer	Oral	3	10800	0	12	0	0
T2	2	High	Summer	Oral	7	10200	0	12	0	0
T2	2	High	Summer	Oral	14	90	0	3	0	0
T2	2	High	Summer	Oral	21	3600	0	12	0	0
T2	2	High	Summer	Oral	28	15	0	3	0	0
T2	2	High	Summer	Oral	35	0	0	0	0	0
T2	2	High	Summer	Oral	42	360	0	12	0	0
T2	2	High	Summer	Oral	49	0	0	0	0	0
T2	2	High	Summer	Oral	56	0	0	0	0	0
T20	9	High	Summer	Oral	0	0	0	0	0	0
T20	9	High	Summer	Oral	1	9000	7	0	2	3
T20	9	High	Summer	Oral	3	25800	4	0	5	3
T20	9	High	Summer	Oral	7	2340	6	0	2	4
T20	9	High	Summer	Oral	14	0	0	0	0	0
T20	9	High	Summer	Oral	21	0	0	0	0	0
T20	9	High	Summer	Oral	28	0	0	0	0	0
T20	9	High	Summer	Oral	35	0	0	0	0	3
T20	9	High	Summer	Oral	42	0	0	0	0	0
T20	9	High	Summer	Oral	49	0	0	0	0	0
T20	9	High	Summer	Oral	56	0	0	0	0	0
T4	4	High	Summer	Oral	0	0	0	0	0	0
T4	4	High	Summer	Oral	1	171000	5	0	5	2
T4	4	High	Summer	Oral	3	11400	2	1	8	1
T4	4	High	Summer	Oral	7	0	0	0	0	0
T4	4	High	Summer	Oral	14	0	0	0	0	0
T4	4	High	Summer	Oral	21	0	0	0	0	0
T4	4	High	Summer	Oral	28	0	0	0	0	0
T4	4	High	Summer	Oral	35	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T4	4	High	Summer	Oral	42	0	0	0	0	0
T4	4	High	Summer	Oral	49	0	0	0	0	0
T4	4	High	Summer	Oral	56	0	0	0	0	0
T6	4	High	Summer	Oral	0	15	0	2	0	0
T6	4	High	Summer	Oral	1	3900	9	0	3	0
T6	4	High	Summer	Oral	3	16200	11	0	1	0
T6	4	High	Summer	Oral	7	7800	10	0	2	0
T6	4	High	Summer	Oral	14	90	2	1	0	0
T6	4	High	Summer	Oral	21	0	0	0	0	0
T6	4	High	Summer	Oral	28	0	0	0	0	0
T6	4	High	Summer	Oral	35	0	0	0	0	0
T6	4	High	Summer	Oral	42	0	0	0	0	0
T6	4	High	Summer	Oral	49	0	0	0	0	0
T6	4	High	Summer	Oral	56	0	0	0	0	0
T8	6	High	Summer	Oral	0	0	0	0	0	0
T8	6	High	Summer	Oral	1	2200	5	0	1	2
T8	6	High	Summer	Oral	3	243000	4	0	4	4
T8	6	High	Summer	Oral	7	9300	6	0	0	6
T8	6	High	Summer	Oral	14	660	12	0	0	0
T8	6	High	Summer	Oral	21	0	0	0	0	0
T8	6	High	Summer	Oral	28	0	0	0	0	0
T8	6	High	Summer	Oral	35	0	0	0	0	0
T8	6	High	Summer	Oral	42	0	0	0	0	0
T8	6	High	Summer	Oral	49	0	0	0	0	0
T8	6	High	Summer	Oral	56	0	0	0	0	0
T9	1	High	Summer	Oral	0	0	0	0	0	0
T9	1	High	Summer	Oral	1	132000	8	0	1	3
T9	1	High	Summer	Oral	3	1830000	6	1	1	4
T9	1	High	Summer	Oral	7	540	11	0	1	0
T9	1	High	Summer	Oral	14	0	0	0	0	0
T9	1	High	Summer	Oral	21	0	0	0	0	0
T9	1	High	Summer	Oral	28	0	0	0	0	0
T9	1	High	Summer	Oral	35	0	0	0	0	0
T9	1	High	Summer	Oral	42	0	0	0	0	0
T9	1	High	Summer	Oral	49	0	0	0	0	0
T9	1	High	Summer	Oral	56	0	0	0	0	0
T11	7	High	Summer	Rectal	0	0	0	0	0	0
T11	7	High	Summer	Rectal	1	2910	3	4	4	1

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T11	7	High	Summer	Rectal	3	930000	4	3	0	5
T11	7	High	Summer	Rectal	7	15	0	0	0	0
T11	7	High	Summer	Rectal	14	15	3	0	0	0
T11	7	High	Summer	Rectal	21	90	3	0	0	0
T11	7	High	Summer	Rectal	28	60	1	0	0	0
T11	7	High	Summer	Rectal	35	30	1	0	0	0
T11	7	High	Summer	Rectal	42	60	1	0	0	0
T11	7	High	Summer	Rectal	49	0	0	0	0	0
T11	7	High	Summer	Rectal	56	0	0	0	0	0
T13	7	High	Summer	Rectal	0	0	0	0	0	0
T13	7	High	Summer	Rectal	1	3300	1	2	1	7
T13	7	High	Summer	Rectal	3	7200	6	0	4	2
T13	7	High	Summer	Rectal	7	300	5	0	3	2
T13	7	High	Summer	Rectal	14	15	5	0	0	1
T13	7	High	Summer	Rectal	21	60	1	0	0	1
T13	7	High	Summer	Rectal	28	15	0	0	0	0
T13	7	High	Summer	Rectal	35	0	0	0	0	0
T13	7	High	Summer	Rectal	42	0	0	0	0	0
T13	7	High	Summer	Rectal	49	0	0	0	0	0
T13	7	High	Summer	Rectal	56	0	0	0	0	0
T14	8	High	Summer	Rectal	0	0	0	0	0	0
T14	8	High	Summer	Rectal	1	1200	1	4	2	5
T14	8	High	Summer	Rectal	3	14400	5	1	6	0
T14	8	High	Summer	Rectal	7	270	3	2	2	2
T14	8	High	Summer	Rectal	14	0	0	0	0	0
T14	8	High	Summer	Rectal	21	0	0	0	0	0
T14	8	High	Summer	Rectal	28	0	0	0	0	0
T14	8	High	Summer	Rectal	35	0	0	0	0	0
T14	8	High	Summer	Rectal	42	0	0	0	0	0
T14	8	High	Summer	Rectal	49	0	0	0	0	0
T14	8	High	Summer	Rectal	56	0	0	0	0	0
T15	5	High	Summer	Rectal	0	0	0	0	0	0
T15	5	High	Summer	Rectal	1	31500	0	1	3	8
T15	5	High	Summer	Rectal	3	129000	1	2	0	9
T15	5	High	Summer	Rectal	7	180	0	1	0	5
T15	5	High	Summer	Rectal	14	0	0	0	0	0
T15	5	High	Summer	Rectal	21	0	0	0	0	0
T15	5	High	Summer	Rectal	28	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T15	5	High	Summer	Rectal	35	0	0	0	0	0
T15	5	High	Summer	Rectal	42	0	0	0	0	0
T15	5	High	Summer	Rectal	49	0	0	0	0	0
T15	5	High	Summer	Rectal	56	0	0	0	0	0
T16	8	High	Summer	Rectal	0	15	0	2	0	0
T16	8	High	Summer	Rectal	1	19200	10	1	0	1
T16	8	High	Summer	Rectal	3	2610	12	0	0	0
T16	8	High	Summer	Rectal	7	720000	10	0	0	2
T16	8	High	Summer	Rectal	14	60000	11	0	0	1
T16	8	High	Summer	Rectal	21	120	0	0	0	4
T16	8	High	Summer	Rectal	28	4800	0	0	0	12
T16	8	High	Summer	Rectal	35	240	0	0	0	9
T16	8	High	Summer	Rectal	42	90	0	0	0	3
T16	8	High	Summer	Rectal	49	0	0	0	0	0
T16	8	High	Summer	Rectal	56	0	0	0	0	0
T18	10	High	Summer	Rectal	0	0	0	0	0	0
T18	10	High	Summer	Rectal	1	96000	7	0	4	1
T18	10	High	Summer	Rectal	3	10300000	0	12	0	0
T18	10	High	Summer	Rectal	7	332	4	0	7	0
T18	10	High	Summer	Rectal	14	0	0	0	0	0
T18	10	High	Summer	Rectal	21	0	0	0	0	0
T18	10	High	Summer	Rectal	28	0	0	0	0	0
T18	10	High	Summer	Rectal	35	0	0	0	0	0
T18	10	High	Summer	Rectal	42	0	0	0	0	0
T18	10	High	Summer	Rectal	49	0	0	0	0	0
T18	10	High	Summer	Rectal	56	0	0	0	0	0
T19	10	High	Summer	Rectal	0	220000	0	12	0	0
T19	10	High	Summer	Rectal	1	1320	2	7	2	1
T19	10	High	Summer	Rectal	3	210	2	4	0	1
T19	10	High	Summer	Rectal	7	540	0	0	1	11
T19	10	High	Summer	Rectal	14	150	3	0	1	1
T19	10	High	Summer	Rectal	21	300	1	0	0	0
T19	10	High	Summer	Rectal	28	120	0	4	0	0
T19	10	High	Summer	Rectal	35	0	0	0	0	0
T19	10	High	Summer	Rectal	42	0	0	0	0	0
T19	10	High	Summer	Rectal	49	0	0	0	0	0
T19	10	High	Summer	Rectal	56	0	0	0	0	0
T3	3	High	Summer	Rectal	0	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T3	3	High	Summer	Rectal	1	25800	3	4	2	3
T3	3	High	Summer	Rectal	3	201000	4	2	4	2
T3	3	High	Summer	Rectal	7	300	1	0	2	9
T3	3	High	Summer	Rectal	14	15	0	0	0	0
T3	3	High	Summer	Rectal	21	1800	0	0	0	12
T3	3	High	Summer	Rectal	28	90	0	0	0	2
T3	3	High	Summer	Rectal	35	68	0	0	0	3
T3	3	High	Summer	Rectal	42	300	0	0	0	2
T3	3	High	Summer	Rectal	49	554	0	0	0	12
T3	3	High	Summer	Rectal	56	6300	0	0	0	12
T5	3	High	Summer	Rectal	0	0	0	0	0	0
T5	3	High	Summer	Rectal	1	6000	3	7	2	0
T5	3	High	Summer	Rectal	3	81000	0	6	3	3
T5	3	High	Summer	Rectal	7	60000	0	11	0	1
T5	3	High	Summer	Rectal	14	180	5	0	0	0
T5	3	High	Summer	Rectal	21	0	0	0	0	0
T5	3	High	Summer	Rectal	28	0	0	0	0	0
T5	3	High	Summer	Rectal	35	0	0	0	0	0
T5	3	High	Summer	Rectal	42	0	0	0	0	0
T5	3	High	Summer	Rectal	49	0	0	0	0	0
T5	3	High	Summer	Rectal	56	0	0	0	0	0
T7	5	High	Summer	Rectal	0	0	0	0	0	0
T7	5	High	Summer	Rectal	1	1500	0	6	1	2
T7	5	High	Summer	Rectal	3	2100	0	1	1	4
T7	5	High	Summer	Rectal	7	99000	0	0	1	10
T7	5	High	Summer	Rectal	14	240	0	0	3	5
T7	5	High	Summer	Rectal	21	550	4	1	0	5
T7	5	High	Summer	Rectal	28	1200	0	0	0	4
T7	5	High	Summer	Rectal	35	54000	0	0	0	12
T7	5	High	Summer	Rectal	42	600	0	0	0	12
T7	5	High	Summer	Rectal	49	15	0	0	0	3
T7	5	High	Summer	Rectal	56	30	1	0	0	0
T1	1	High	Winter	Oral	0	0	0	0	0	0
T1	1	High	Winter	Oral	1	6600	3	0	7	2
T1	1	High	Winter	Oral	3	330	1	0	3	6
T1	1	High	Winter	Oral	7	15	3	0	0	0
T1	1	High	Winter	Oral	14	0	0	0	0	0
T1	1	High	Winter	Oral	21	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T1	1	High	Winter	Oral	28	0	0	0	0	0
T1	1	High	Winter	Oral	35	0	0	0	0	0
T1	1	High	Winter	Oral	42	0	0	0	0	0
T1	1	High	Winter	Oral	49	0	0	0	0	0
T1	1	High	Winter	Oral	56	0	0	0	0	0
T10	2	High	Winter	Oral	0	0	0	0	0	0
T10	2	High	Winter	Oral	1	7200	3	0	8	1
T10	2	High	Winter	Oral	3	45000	2	0	8	2
T10	2	High	Winter	Oral	7	15	3	0	0	0
T10	2	High	Winter	Oral	14	0	0	0	0	0
T10	2	High	Winter	Oral	21	0	0	0	0	0
T10	2	High	Winter	Oral	28	0	0	0	0	0
T10	2	High	Winter	Oral	35	0	0	0	0	0
T10	2	High	Winter	Oral	42	0	0	0	0	0
T10	2	High	Winter	Oral	49	0	0	0	0	0
T10	2	High	Winter	Oral	56	0	0	0	0	0
T12	6	High	Winter	Oral	0	0	0	0	0	0
T12	6	High	Winter	Oral	1	49500	7	0	3	2
T12	6	High	Winter	Oral	3	1290000	5	0	4	3
T12	6	High	Winter	Oral	7	2400	10	0	1	1
T12	6	High	Winter	Oral	14	30	1	0	0	0
T12	6	High	Winter	Oral	21	0	0	0	0	0
T12	6	High	Winter	Oral	28	0	0	0	0	0
T12	6	High	Winter	Oral	35	0	0	0	0	0
T12	6	High	Winter	Oral	42	0	0	0	0	0
T12	6	High	Winter	Oral	49	0	0	0	0	0
T12	6	High	Winter	Oral	56	0	0	0	0	0
T17	9	High	Winter	Oral	0	60	0	0	0	12
T17	9	High	Winter	Oral	1	11700	1	4	3	4
T17	9	High	Winter	Oral	3	7800	2	0	3	7
T17	9	High	Winter	Oral	7	210	0	0	0	6
T17	9	High	Winter	Oral	14	240	0	0	0	9
T17	9	High	Winter	Oral	21	1310	0	0	0	12
T17	9	High	Winter	Oral	28	41700	0	0	0	12
T17	9	High	Winter	Oral	35	1020	0	0	0	12
T17	9	High	Winter	Oral	42	24300	0	0	0	12
T17	9	High	Winter	Oral	49	1260	0	0	0	12
T17	9	High	Winter	Oral	56	1950	0	0	0	12

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T2	2	High	Winter	Oral	0	0	0	0	0	0
T2	2	High	Winter	Oral	1	21300	5	0	6	1
T2	2	High	Winter	Oral	35	10800	12	0	0	0
T2	2	High	Winter	Oral	7	360	12	0	0	0
T2	2	High	Winter	Oral	14	60	3	0	0	0
T2	2	High	Winter	Oral	21	180	6	0	0	0
T2	2	High	Winter	Oral	28	38700	12	0	0	0
T2	2	High	Winter	Oral	3	5610	4	0	8	0
T2	2	High	Winter	Oral	42	2820	12	0	0	0
T2	2	High	Winter	Oral	49	22200	12	0	0	0
T2	2	High	Winter	Oral	56	15	3	0	0	0
T20	9	High	Winter	Oral	0	0	0	0	0	0
T20	9	High	Winter	Oral	1	33900	5	0	3	4
T20	9	High	Winter	Oral	3	2310	3	0	7	2
T20	9	High	Winter	Oral	7	630	0	0	6	6
T20	9	High	Winter	Oral	14	15	3	0	3	0
T20	9	High	Winter	Oral	21	15	0	0	1	2
T20	9	High	Winter	Oral	28	15	0	0	0	3
T20	9	High	Winter	Oral	35	930	0	0	0	12
T20	9	High	Winter	Oral	42	4620	0	0	0	12
T20	9	High	Winter	Oral	49	9900	0	0	0	12
T20	9	High	Winter	Oral	56	2160	0	0	0	12
T4	4	High	Winter	Oral	0	0	0	0	0	0
T4	4	High	Winter	Oral	1	33000	4	0	5	3
T4	4	High	Winter	Oral	3	930000	4	2	5	1
T4	4	High	Winter	Oral	7	45900	6	0	0	6
T4	4	High	Winter	Oral	14	0	0	0	0	0
T4	4	High	Winter	Oral	21	0	0	0	0	0
T4	4	High	Winter	Oral	28	0	0	0	0	0
T4	4	High	Winter	Oral	35	0	0	0	0	0
T4	4	High	Winter	Oral	42	0	0	0	0	0
T4	4	High	Winter	Oral	49	0	0	0	0	0
T4	4	High	Winter	Oral	56	0	0	0	0	0
T6	4	High	Winter	Oral	0	0	0	0	0	0
T6	4	High	Winter	Oral	1	6600	5	0	7	0
T6	4	High	Winter	Oral	3	45000	7	0	5	0
T6	4	High	Winter	Oral	7	10500	2	0	5	5
T6	4	High	Winter	Oral	14	330	0	0	0	12

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T6	4	High	Winter	Oral	21	1120	3	0	0	9
T6	4	High	Winter	Oral	28	210	0	0	0	8
T6	4	High	Winter	Oral	35	630	0	0	0	12
T6	4	High	Winter	Oral	42	133	0	0	0	8
T6	4	High	Winter	Oral	49	0	0	0	0	0
T6	4	High	Winter	Oral	56	0	0	0	0	0
T8	6	High	Winter	Oral	0	0	0	0	0	0
T8	6	High	Winter	Oral	1	16500	3	0	5	4
T8	6	High	Winter	Oral	3	1740000	4	1	2	5
T8	6	High	Winter	Oral	7	53400	11	0	0	1
T8	6	High	Winter	Oral	14	0	0	0	0	0
T8	6	High	Winter	Oral	21	0	0	0	0	0
T8	6	High	Winter	Oral	28	0	0	0	0	0
T8	6	High	Winter	Oral	35	0	0	0	0	0
T8	6	High	Winter	Oral	42	0	0	0	0	0
T8	6	High	Winter	Oral	49	0	0	0	0	0
T8	6	High	Winter	Oral	56	0	0	0	0	0
T9	1	High	Winter	Oral	0	0	0	0	0	0
T9	1	High	Winter	Oral	1	3960	6	0	6	0
T9	1	High	Winter	Oral	3	1440000	5	0	7	0
T9	1	High	Winter	Oral	7	41100	5	0	0	7
T9	1	High	Winter	Oral	14	480	11	0	1	0
T9	1	High	Winter	Oral	21	60	2	0	0	0
T9	1	High	Winter	Oral	28	0	0	0	0	0
T9	1	High	Winter	Oral	35	0	0	0	0	0
T9	1	High	Winter	Oral	42	0	0	0	0	0
T9	1	High	Winter	Oral	49	0	0	0	0	0
T9	1	High	Winter	Oral	56	0	0	0	0	0
T11	7	High	Winter	Rectal	0	0	0	0	0	0
T11	7	High	Winter	Rectal	1	2370	7	0	0	5
T11	7	High	Winter	Rectal	3	2850	2	4	3	3
T11	7	High	Winter	Rectal	7	113	1	0	0	2
T11	7	High	Winter	Rectal	14	330	0	6	0	0
T11	7	High	Winter	Rectal	21	0	0	0	0	0
T11	7	High	Winter	Rectal	28	0	0	0	0	0
T11	7	High	Winter	Rectal	35	0	0	0	0	0
T11	7	High	Winter	Rectal	42	0	0	0	0	0
T11	7	High	Winter	Rectal	49	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T11	7	High	Winter	Rectal	56	0	0	0	0	0
T13	7	High	Winter	Rectal	0	0	0	0	0	0
T13	7	High	Winter	Rectal	1	228000	5	6	0	1
T13	7	High	Winter	Rectal	3	63000	1	3	5	3
T13	7	High	Winter	Rectal	7	450	1	0	0	10
T13	7	High	Winter	Rectal	14	60	0	0	0	2
T13	7	High	Winter	Rectal	21	420	0	9	0	3
T13	7	High	Winter	Rectal	28	30	0	1	0	0
T13	7	High	Winter	Rectal	35	15	3	0	0	0
T13	7	High	Winter	Rectal	42	15	3	0	0	0
T13	7	High	Winter	Rectal	49	15	3	0	0	0
T13	7	High	Winter	Rectal	56	0	0	0	0	0
T14	8	High	Winter	Rectal	0	0	0	0	0	0
T14	8	High	Winter	Rectal	1	64200	3	3	4	2
T14	8	High	Winter	Rectal	3	57600	4	1	0	7
T14	8	High	Winter	Rectal	7	28800	2	1	0	9
T14	8	High	Winter	Rectal	14	60	0	2	0	1
T14	8	High	Winter	Rectal	21	3600	0	0	0	12
T14	8	High	Winter	Rectal	28	10800	0	0	0	12
T14	8	High	Winter	Rectal	35	5700	0	0	0	12
T14	8	High	Winter	Rectal	42	1500	0	0	0	12
T14	8	High	Winter	Rectal	49	3600	0	0	0	12
T14	8	High	Winter	Rectal	56	1260	0	0	0	12
T15	5	High	Winter	Rectal	0	0	0	0	0	0
T15	5	High	Winter	Rectal	1	66000	2	3	2	5
T15	5	High	Winter	Rectal	3	780000	3	5	0	4
T15	5	High	Winter	Rectal	7	25500	1	0	3	8
T15	5	High	Winter	Rectal	14	15	0	3	0	0
T15	5	High	Winter	Rectal	21	15	0	0	0	3
T15	5	High	Winter	Rectal	28	0	0	0	0	0
T15	5	High	Winter	Rectal	35	0	0	0	0	0
T15	5	High	Winter	Rectal	42	0	0	0	0	0
T15	5	High	Winter	Rectal	49	0	0	0	0	0
T15	5	High	Winter	Rectal	56	0	0	0	0	0
T16	8	High	Winter	Rectal	0	0	0	0	0	0
T16	8	High	Winter	Rectal	1	87000	4	2	1	5
T16	8	High	Winter	Rectal	3	960000	5	1	1	5
T16	8	High	Winter	Rectal	7	930	6	2	1	3

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T16	8	High	Winter	Rectal	14	15	3	0	0	0
T16	8	High	Winter	Rectal	21	8700	12	0	0	0
T16	8	High	Winter	Rectal	28	70800	12	0	0	0
T16	8	High	Winter	Rectal	35	1800	12	0	0	0
T16	8	High	Winter	Rectal	42	1800	12	0	0	0
T16	8	High	Winter	Rectal	49	15	3	0	0	0
T16	8	High	Winter	Rectal	56	30	1	0	0	0
T18	10	High	Winter	Rectal	0	0	0	0	0	0
T18	10	High	Winter	Rectal	1	36300	4	0	7	1
T18	10	High	Winter	Rectal	3	555000	2	0	1	9
T18	10	High	Winter	Rectal	7	1140	1	1	1	9
T18	10	High	Winter	Rectal	14	390	2	3	1	5
T18	10	High	Winter	Rectal	21	180	6	0	0	0
T18	10	High	Winter	Rectal	28	15	0	0	0	3
T18	10	High	Winter	Rectal	35	0	0	0	0	0
T18	10	High	Winter	Rectal	42	0	0	0	0	0
T18	10	High	Winter	Rectal	49	0	0	0	0	0
T18	10	High	Winter	Rectal	56	0	0	0	0	0
T19	10	High	Winter	Rectal	0	0	0	0	0	0
T19	10	High	Winter	Rectal	1	55000	1	3	4	4
T19	10	High	Winter	Rectal	3	1380000	1	3	0	8
T19	10	High	Winter	Rectal	7	60	0	1	0	0
T19	10	High	Winter	Rectal	14	15	0	0	0	2
T19	10	High	Winter	Rectal	21	0	0	0	0	0
T19	10	High	Winter	Rectal	28	0	0	0	0	0
T19	10	High	Winter	Rectal	35	0	0	0	0	0
T19	10	High	Winter	Rectal	42	0	0	0	0	0
T19	10	High	Winter	Rectal	49	0	0	0	0	0
T19	10	High	Winter	Rectal	56	0	0	0	0	0
T3	3	High	Winter	Rectal	0	0	0	0	0	0
T3	3	High	Winter	Rectal	1	51300	4	3	0	5
T3	3	High	Winter	Rectal	3	96000	6	0	1	5
T3	3	High	Winter	Rectal	7	840	0	8	1	3
T3	3	High	Winter	Rectal	14	210	0	0	0	7
T3	3	High	Winter	Rectal	21	15	0	0	0	3
T3	3	High	Winter	Rectal	28	1800	0	0	0	12
T3	3	High	Winter	Rectal	35	60	0	0	0	3
T3	3	High	Winter	Rectal	42	360	0	0	0	12

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T3	3	High	Winter	Rectal	49	30	0	0	0	2
T3	3	High	Winter	Rectal	56	60	0	0	0	2
T5	3	High	Winter	Rectal	0	0	0	0	0	0
T5	3	High	Winter	Rectal	1	632	1	2	1	8
T5	3	High	Winter	Rectal	3	58800	3	1	4	4
T5	3	High	Winter	Rectal	7	8700	8	1	1	2
T5	3	High	Winter	Rectal	14	300	4	1	0	7
T5	3	High	Winter	Rectal	21	0	0	0	0	0
T5	3	High	Winter	Rectal	28	0	0	0	0	0
T5	3	High	Winter	Rectal	35	0	0	0	0	0
T5	3	High	Winter	Rectal	42	0	0	0	0	0
T5	3	High	Winter	Rectal	49	0	0	0	0	0
T5	3	High	Winter	Rectal	56	0	0	0	0	0
T7	5	High	Winter	Rectal	0	0	0	0	0	0
T7	5	High	Winter	Rectal	1	42600	5	1	0	6
T7	5	High	Winter	Rectal	3	3200000	6	0	0	6
T7	5	High	Winter	Rectal	7	570	1	1	2	8
T7	5	High	Winter	Rectal	14	240	4	2	1	1
T7	5	High	Winter	Rectal	21	600	5	0	1	0
T7	5	High	Winter	Rectal	28	150	4	4	0	0
T7	5	High	Winter	Rectal	35	690	7	2	2	1
T7	5	High	Winter	Rectal	42	480	0	7	4	1
T7	5	High	Winter	Rectal	49	150	0	2	0	3
T7	5	High	Winter	Rectal	56	60	2	0	0	0
T11	7	Low	Summer	Oral	0	0	0	0	0	0
T11	7	Low	Summer	Oral	1	120	2	0	2	0
T11	7	Low	Summer	Oral	3	16800	3	0	2	7
T11	7	Low	Summer	Oral	7	18300	2	0	10	0
T11	7	Low	Summer	Oral	14	15	3	0	0	0
T11	7	Low	Summer	Oral	21	0	0	0	0	0
T11	7	Low	Summer	Oral	28	0	0	0	0	0
T11	7	Low	Summer	Oral	35	0	0	0	0	0
T11	7	Low	Summer	Oral	42	0	0	0	0	0
T11	7	Low	Summer	Oral	49	0	0	0	0	0
T11	7	Low	Summer	Oral	56	0	0	0	0	0
T13	7	Low	Summer	Oral	0	0	0	0	0	0
T13	7	Low	Summer	Oral	1	150	4	0	1	0
T13	7	Low	Summer	Oral	3	19500	10	0	2	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T13	7	Low	Summer	Oral	7	96000	2	0	10	0
T13	7	Low	Summer	Oral	14	30	1	0	0	0
T13	7	Low	Summer	Oral	21	90	0	1	2	0
T13	7	Low	Summer	Oral	28	15	2	0	1	0
T13	7	Low	Summer	Oral	35	15	3	0	0	0
T13	7	Low	Summer	Oral	42	15	3	0	0	0
T13	7	Low	Summer	Oral	49	0	0	0	0	0
T13	7	Low	Summer	Oral	56	0	0	0	0	0
T14	8	Low	Summer	Oral	0	0	0	0	0	0
T14	8	Low	Summer	Oral	1	720	8	0	4	0
T14	8	Low	Summer	Oral	3	60	0	0	2	0
T14	8	Low	Summer	Oral	7	570	0	0	12	0
T14	8	Low	Summer	Oral	14	66000	0	0	12	0
T14	8	Low	Summer	Oral	21	1170	0	0	12	0
T14	8	Low	Summer	Oral	28	1720	0	0	12	0
T14	8	Low	Summer	Oral	35	127	0	0	12	0
T14	8	Low	Summer	Oral	42	15	3	0	0	0
T14	8	Low	Summer	Oral	49	0	0	0	0	0
T14	8	Low	Summer	Oral	56	0	0	0	0	0
T15	5	Low	Summer	Oral	0	0	0	0	0	0
T15	5	Low	Summer	Oral	1	840	3	0	7	2
T15	5	Low	Summer	Oral	3	15300	10	0	2	0
T15	5	Low	Summer	Oral	7	2220	6	2	4	0
T15	5	Low	Summer	Oral	14	15	3	0	0	0
T15	5	Low	Summer	Oral	21	0	0	0	0	0
T15	5	Low	Summer	Oral	28	15	0	1	0	0
T15	5	Low	Summer	Oral	35	15	3	0	0	0
T15	5	Low	Summer	Oral	42	0	0	0	0	0
T15	5	Low	Summer	Oral	49	0	0	0	0	0
T15	5	Low	Summer	Oral	56	0	0	0	0	0
T16	8	Low	Summer	Oral	0	0	0	0	0	0
T16	8	Low	Summer	Oral	1	90	0	0	3	0
T16	8	Low	Summer	Oral	3	27900	0	0	11	1
T16	8	Low	Summer	Oral	7	7260	1	2	9	0
T16	8	Low	Summer	Oral	14	2010	1	0	4	7
T16	8	Low	Summer	Oral	21	0	0	0	0	0
T16	8	Low	Summer	Oral	28	0	0	0	0	0
T16	8	Low	Summer	Oral	35	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T16	8	Low	Summer	Oral	42	0	0	0	0	0
T16	8	Low	Summer	Oral	49	0	0	0	0	0
T16	8	Low	Summer	Oral	56	0	0	0	0	0
T18	10	Low	Summer	Oral	0	0	0	0	0	0
T18	10	Low	Summer	Oral	1	330	3	1	7	0
T18	10	Low	Summer	Oral	3	3990	6	1	5	0
T18	10	Low	Summer	Oral	7	4950	3	2	5	2
T18	10	Low	Summer	Oral	14	0	0	0	0	0
T18	10	Low	Summer	Oral	21	0	0	0	0	0
T18	10	Low	Summer	Oral	28	0	0	0	0	0
T18	10	Low	Summer	Oral	35	0	0	0	0	0
T18	10	Low	Summer	Oral	42	0	0	0	0	0
T18	10	Low	Summer	Oral	49	0	0	0	0	0
T18	10	Low	Summer	Oral	56	0	0	0	0	0
T19	10	Low	Summer	Oral	0	15	0	1	0	0
T19	10	Low	Summer	Oral	1	210	2	0	5	0
T19	10	Low	Summer	Oral	3	15	0	0	3	0
T19	10	Low	Summer	Oral	7	0	0	0	0	0
T19	10	Low	Summer	Oral	14	0	0	0	0	0
T19	10	Low	Summer	Oral	21	0	0	0	0	0
T19	10	Low	Summer	Oral	28	0	0	0	0	0
T19	10	Low	Summer	Oral	35	0	0	0	0	0
T19	10	Low	Summer	Oral	42	0	0	0	0	0
T19	10	Low	Summer	Oral	49	0	0	0	0	0
T19	10	Low	Summer	Oral	56	0	0	0	0	0
T3	3	Low	Summer	Oral	0	0	0	0	0	0
T3	3	Low	Summer	Oral	1	125	1	1	2	1
T3	3	Low	Summer	Oral	7	9600	0	0	12	0
T3	3	Low	Summer	Oral	14	4890	0	0	1	0
T3	3	Low	Summer	Oral	21	30	0	0	5	0
T3	3	Low	Summer	Oral	28	30	0	0	1	0
T3	3	Low	Summer	Oral	3	30	0	0	12	0
T3	3	Low	Summer	Oral	35	627	0	0	12	0
T3	3	Low	Summer	Oral	42	0	0	0	0	0
T3	3	Low	Summer	Oral	49	0	0	0	0	0
T3	3	Low	Summer	Oral	56	0	0	0	0	0
T5	3	Low	Summer	Oral	0	0	0	0	0	0
T5	3	Low	Summer	Oral	1	154	1	1	3	1

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T5	3	Low	Summer	Oral	3	0	0	0	0	0
T5	3	Low	Summer	Oral	7	0	0	0	0	0
T5	3	Low	Summer	Oral	14	0	0	0	0	0
T5	3	Low	Summer	Oral	21	0	0	0	0	0
T5	3	Low	Summer	Oral	28	0	0	0	0	0
T5	3	Low	Summer	Oral	35	0	0	0	0	0
T5	3	Low	Summer	Oral	42	0	0	0	0	0
T5	3	Low	Summer	Oral	49	0	0	0	0	0
T5	3	Low	Summer	Oral	56	0	0	0	0	0
T7	5	Low	Summer	Oral	0	0	0	0	0	0
T7	5	Low	Summer	Oral	1	1770	1	0	7	4
T7	5	Low	Summer	Oral	3	30	0	0	1	0
T7	5	Low	Summer	Oral	7	0	0	0	0	0
T7	5	Low	Summer	Oral	14	0	0	0	0	0
T7	5	Low	Summer	Oral	21	0	0	0	0	0
T7	5	Low	Summer	Oral	28	0	0	0	0	0
T7	5	Low	Summer	Oral	35	0	0	0	0	0
T7	5	Low	Summer	Oral	42	0	0	0	0	0
T7	5	Low	Summer	Oral	49	0	0	0	0	0
T7	5	Low	Summer	Oral	56	0	0	0	0	0
T1	1	Low	Summer	Rectal	0	0	0	0	0	0
T1	1	Low	Summer	Rectal	1	7590	0	4	2	6
T1	1	Low	Summer	Rectal	3	126000	0	5	0	7
T1	1	Low	Summer	Rectal	7	180	0	6	0	0
T1	1	Low	Summer	Rectal	14	0	0	0	0	0
T1	1	Low	Summer	Rectal	21	0	0	0	0	0
T1	1	Low	Summer	Rectal	28	0	0	0	3	0
T1	1	Low	Summer	Rectal	35	0	0	0	0	0
T1	1	Low	Summer	Rectal	42	0	0	0	0	0
T1	1	Low	Summer	Rectal	49	0	0	0	0	0
T1	1	Low	Summer	Rectal	56	0	0	0	0	0
T10	2	Low	Summer	Rectal	0	0	0	0	0	0
T10	2	Low	Summer	Rectal	1	4890	3	3	2	4
T10	2	Low	Summer	Rectal	3	303000	1	2	1	8
T10	2	Low	Summer	Rectal	7	207	1	0	0	11
T10	2	Low	Summer	Rectal	14	30	0	0	0	1
T10	2	Low	Summer	Rectal	21	0	0	0	0	0
T10	2	Low	Summer	Rectal	28	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T10	2	Low	Summer	Rectal	35	0	0	0	0	0
T10	2	Low	Summer	Rectal	42	0	0	0	0	0
T10	2	Low	Summer	Rectal	49	0	0	0	0	0
T10	2	Low	Summer	Rectal	56	0	0	0	0	0
T12	6	Low	Summer	Rectal	0	0	0	0	0	0
T12	6	Low	Summer	Rectal	1	2900	3	7	1	1
T12	6	Low	Summer	Rectal	3	50100	2	1	0	9
T12	6	Low	Summer	Rectal	7	28500	3	0	0	9
T12	6	Low	Summer	Rectal	14	90	0	1	0	9
T12	6	Low	Summer	Rectal	21	150	0	0	0	6
T12	6	Low	Summer	Rectal	28	0	0	0	0	0
T12	6	Low	Summer	Rectal	35	0	0	0	0	0
T12	6	Low	Summer	Rectal	42	0	0	0	0	0
T12	6	Low	Summer	Rectal	49	0	0	0	0	0
T12	6	Low	Summer	Rectal	56	0	0	0	0	0
T17	9	Low	Summer	Rectal	0	300	10	0	0	0
T17	9	Low	Summer	Rectal	1	1470	9	2	0	1
T17	9	Low	Summer	Rectal	3	220	1	0	0	3
T17	9	Low	Summer	Rectal	7	90	0	0	0	3
T17	9	Low	Summer	Rectal	14	210	0	0	0	7
T17	9	Low	Summer	Rectal	21	90	0	0	0	3
T17	9	Low	Summer	Rectal	28	30	0	0	0	3
T17	9	Low	Summer	Rectal	35	15	0	0	0	3
T17	9	Low	Summer	Rectal	42	0	0	0	0	0
T17	9	Low	Summer	Rectal	49	15	2	0	0	0
T17	9	Low	Summer	Rectal	56	0	0	0	0	0
T2	2	Low	Summer	Rectal	0	15	0	8	0	0
T2	2	Low	Summer	Rectal	1	570	0	10	0	2
T2	2	Low	Summer	Rectal	3	720	0	12	0	0
T2	2	Low	Summer	Rectal	7	60	0	2	0	0
T2	2	Low	Summer	Rectal	14	0	0	0	0	0
T2	2	Low	Summer	Rectal	21	0	0	0	0	0
T2	2	Low	Summer	Rectal	28	0	0	0	0	0
T2	2	Low	Summer	Rectal	35	0	0	0	0	0
T2	2	Low	Summer	Rectal	42	0	0	0	0	0
T2	2	Low	Summer	Rectal	49	0	0	0	0	0
T2	2	Low	Summer	Rectal	56	0	0	0	0	0
T20	9	Low	Summer	Rectal	0	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T20	9	Low	Summer	Rectal	1	17100	3	2	1	6
T20	9	Low	Summer	Rectal	3	189000	0	1	2	9
T20	9	Low	Summer	Rectal	7	3930	10	0	0	2
T20	9	Low	Summer	Rectal	14	330	11	0	0	0
T20	9	Low	Summer	Rectal	21	0	0	0	0	0
T20	9	Low	Summer	Rectal	28	0	0	0	0	0
T20	9	Low	Summer	Rectal	35	0	0	0	0	0
T20	9	Low	Summer	Rectal	42	0	0	0	0	0
T20	9	Low	Summer	Rectal	49	0	0	0	0	0
T20	9	Low	Summer	Rectal	56	0	0	0	0	0
T4	4	Low	Summer	Rectal	0	0	0	0	0	0
T4	4	Low	Summer	Rectal	1	90	3	0	0	0
T4	4	Low	Summer	Rectal	3	0	0	0	0	0
T4	4	Low	Summer	Rectal	7	15	0	0	0	3
T4	4	Low	Summer	Rectal	14	14400	0	0	0	12
T4	4	Low	Summer	Rectal	21	64200	0	0	0	12
T4	4	Low	Summer	Rectal	28	0	0	0	0	0
T4	4	Low	Summer	Rectal	35	0	0	0	0	0
T4	4	Low	Summer	Rectal	42	0	0	0	0	0
T4	4	Low	Summer	Rectal	49	0	0	0	0	0
T4	4	Low	Summer	Rectal	56	0	0	0	0	0
T6	4	Low	Summer	Rectal	0	0	0	0	0	0
T6	4	Low	Summer	Rectal	1	1890	6	0	5	1
T6	4	Low	Summer	Rectal	3	14700	9	2	1	0
T6	4	Low	Summer	Rectal	7	7710	2	6	1	3
T6	4	Low	Summer	Rectal	14	0	0	0	0	0
T6	4	Low	Summer	Rectal	21	0	0	0	0	0
T6	4	Low	Summer	Rectal	28	0	0	0	0	0
T6	4	Low	Summer	Rectal	35	0	0	0	0	0
T6	4	Low	Summer	Rectal	42	0	0	0	0	0
T6	4	Low	Summer	Rectal	49	0	0	0	0	0
T6	4	Low	Summer	Rectal	56	0	0	0	0	0
T8	6	Low	Summer	Rectal	0	0	0	0	0	0
T8	6	Low	Summer	Rectal	1	9000	6	2	1	3
T8	6	Low	Summer	Rectal	3	96000	8	1	0	3
T8	6	Low	Summer	Rectal	7	2520	6	0	0	6
T8	6	Low	Summer	Rectal	14	0	0	0	0	0
T8	6	Low	Summer	Rectal	21	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T8	6	Low	Summer	Rectal	28	0	0	0	0	0
T8	6	Low	Summer	Rectal	35	0	0	0	0	0
T8	6	Low	Summer	Rectal	42	0	0	0	0	0
T8	6	Low	Summer	Rectal	49	0	0	0	0	0
T8	6	Low	Summer	Rectal	56	0	0	0	0	0
T9	1	Low	Summer	Rectal	0	0	0	0	0	0
T9	1	Low	Summer	Rectal	1	600	1	0	0	0
T9	1	Low	Summer	Rectal	3	5190	6	6	0	0
T9	1	Low	Summer	Rectal	7	201	8	4	0	0
T9	1	Low	Summer	Rectal	14	6600	12	0	0	0
T9	1	Low	Summer	Rectal	21	60	1	1	0	0
T9	1	Low	Summer	Rectal	28	15	0	3	0	0
T9	1	Low	Summer	Rectal	35	15	3	0	0	0
T9	1	Low	Summer	Rectal	42	0	0	0	0	0
T9	1	Low	Summer	Rectal	49	0	0	0	0	0
T9	1	Low	Summer	Rectal	56	0	0	0	0	0
T11	7	Low	Winter	Oral	0	0	0	0	0	0
T11	7	Low	Winter	Oral	1	210	2	0	5	0
T11	7	Low	Winter	Oral	3	195000	5	0	7	0
T11	7	Low	Winter	Oral	7	240	1	0	4	3
T11	7	Low	Winter	Oral	14	0	0	0	0	0
T11	7	Low	Winter	Oral	21	0	0	0	0	0
T11	7	Low	Winter	Oral	28	0	0	0	0	0
T11	7	Low	Winter	Oral	35	0	0	0	0	0
T11	7	Low	Winter	Oral	42	0	0	0	0	0
T11	7	Low	Winter	Oral	49	0	0	0	0	0
T11	7	Low	Winter	Oral	56	0	0	0	0	0
T13	7	Low	Winter	Oral	0	15	0	0	0	3
T13	7	Low	Winter	Oral	1	180	2	0	4	0
T13	7	Low	Winter	Oral	3	150000	5	0	7	0
T13	7	Low	Winter	Oral	7	720	9	0	2	1
T13	7	Low	Winter	Oral	14	0	0	0	0	0
T13	7	Low	Winter	Oral	21	15	0	0	3	0
T13	7	Low	Winter	Oral	28	120	0	3	0	0
T13	7	Low	Winter	Oral	35	0	0	0	0	0
T13	7	Low	Winter	Oral	42	0	0	0	0	0
T13	7	Low	Winter	Oral	49	0	0	0	0	0
T13	7	Low	Winter	Oral	56	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T14	8	Low	Winter	Oral	0	0	0	0	0	0
T14	8	Low	Winter	Oral	1	1860	8	1	2	1
T14	8	Low	Winter	Oral	3	171000	5	1	5	1
T14	8	Low	Winter	Oral	7	29700	1	2	0	9
T14	8	Low	Winter	Oral	14	120	0	0	0	4
T14	8	Low	Winter	Oral	21	270	0	0	1	8
T14	8	Low	Winter	Oral	28	3660	0	0	0	12
T14	8	Low	Winter	Oral	35	2260	0	0	0	12
T14	8	Low	Winter	Oral	42	4200	0	0	0	12
T14	8	Low	Winter	Oral	49	7200	0	0	0	12
T14	8	Low	Winter	Oral	56	630	0	0	0	12
T15	5	Low	Winter	Oral	0	0	0	0	0	0
T15	5	Low	Winter	Oral	1	1020	4	0	7	1
T15	5	Low	Winter	Oral	3	156000	7	1	4	0
T15	5	Low	Winter	Oral	7	15	1	2	0	0
T15	5	Low	Winter	Oral	14	15	0	0	0	3
T15	5	Low	Winter	Oral	21	15	0	0	0	3
T15	5	Low	Winter	Oral	28	0	0	0	0	0
T15	5	Low	Winter	Oral	35	0	0	0	0	0
T15	5	Low	Winter	Oral	42	0	0	0	0	0
T15	5	Low	Winter	Oral	49	0	0	0	0	0
T15	5	Low	Winter	Oral	56	0	0	0	0	0
T16	8	Low	Winter	Oral	0	0	0	0	0	0
T16	8	Low	Winter	Oral	1	2070	7	0	3	2
T16	8	Low	Winter	Oral	3	513000	3	0	8	1
T16	8	Low	Winter	Oral	7	240	1	0	0	7
T16	8	Low	Winter	Oral	14	0	0	0	0	0
T16	8	Low	Winter	Oral	21	0	0	0	0	0
T16	8	Low	Winter	Oral	28	0	0	0	0	0
T16	8	Low	Winter	Oral	35	0	0	0	0	0
T16	8	Low	Winter	Oral	42	0	0	0	0	0
T16	8	Low	Winter	Oral	49	0	0	0	0	0
T16	8	Low	Winter	Oral	56	0	0	0	0	0
T18	10	Low	Winter	Oral	0	0	0	0	0	0
T18	10	Low	Winter	Oral	1	306000	6	0	6	0
T18	10	Low	Winter	Oral	3	7800	6	0	6	0
T18	10	Low	Winter	Oral	7	3135	2	0	10	0
T18	10	Low	Winter	Oral	14	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T18	10	Low	Winter	Oral	21	0	0	0	0	0
T18	10	Low	Winter	Oral	28	0	0	0	0	0
T18	10	Low	Winter	Oral	35	0	0	0	0	0
T18	10	Low	Winter	Oral	42	0	0	0	0	0
T18	10	Low	Winter	Oral	49	0	0	0	0	0
T18	10	Low	Winter	Oral	56	0	0	0	0	0
T19	10	Low	Winter	Oral	0	0	0	0	0	0
T19	10	Low	Winter	Oral	1	1080	7	0	5	0
T19	10	Low	Winter	Oral	3	2670	5	0	7	0
T19	10	Low	Winter	Oral	7	390	6	0	6	0
T19	10	Low	Winter	Oral	14	0	0	0	0	0
T19	10	Low	Winter	Oral	21	0	0	0	0	0
T19	10	Low	Winter	Oral	28	0	0	0	0	0
T19	10	Low	Winter	Oral	35	0	0	0	0	0
T19	10	Low	Winter	Oral	42	0	0	0	0	0
T19	10	Low	Winter	Oral	49	0	0	0	0	0
T19	10	Low	Winter	Oral	56	0	0	0	0	0
T3	3	Low	Winter	Oral	0	0	0	0	0	0
T3	3	Low	Winter	Oral	1	6510	3	0	9	0
T3	3	Low	Winter	Oral	3	47100	6	0	5	1
T3	3	Low	Winter	Oral	7	15	1	0	0	2
T3	3	Low	Winter	Oral	14	0	0	0	0	0
T3	3	Low	Winter	Oral	21	0	0	0	0	0
T3	3	Low	Winter	Oral	28	0	0	0	0	0
T3	3	Low	Winter	Oral	35	0	0	0	0	0
T3	3	Low	Winter	Oral	42	0	0	0	0	0
T3	3	Low	Winter	Oral	49	0	0	0	0	0
T3	3	Low	Winter	Oral	56	0	0	0	0	0
T5	3	Low	Winter	Oral	0	0	0	0	0	0
T5	3	Low	Winter	Oral	1	150	1	0	4	0
T5	3	Low	Winter	Oral	3	418	12	0	0	0
T5	3	Low	Winter	Oral	7	43800	12	0	0	0
T5	3	Low	Winter	Oral	14	570	12	0	0	0
T5	3	Low	Winter	Oral	21	0	0	0	0	0
T5	3	Low	Winter	Oral	28	0	0	0	0	0
T5	3	Low	Winter	Oral	35	0	0	0	0	0
T5	3	Low	Winter	Oral	42	0	0	0	0	0
T5	3	Low	Winter	Oral	49	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T5	3	Low	Winter	Oral	56	0	0	0	0	0
T7	5	Low	Winter	Oral	0	0	0	0	0	0
T7	5	Low	Winter	Oral	1	5100	3	0	5	4
T7	5	Low	Winter	Oral	3	49200	0	0	0	12
T7	5	Low	Winter	Oral	7	17100	6	0	0	6
T7	5	Low	Winter	Oral	14	120	1	0	0	3
T7	5	Low	Winter	Oral	21	60	1	0	0	1
T7	5	Low	Winter	Oral	28	15	3	0	0	0
T7	5	Low	Winter	Oral	35	15	3	0	0	0
T7	5	Low	Winter	Oral	42	0	0	0	0	0
T7	5	Low	Winter	Oral	49	0	0	0	0	0
T7	5	Low	Winter	Oral	56	0	0	0	0	0
T1	1	Low	Winter	Rectal	0	0	0	0	0	0
T1	1	Low	Winter	Rectal	1	3720	3	0	5	4
T1	1	Low	Winter	Rectal	3	4950	1	5	1	5
T1	1	Low	Winter	Rectal	7	30	1	0	0	0
T1	1	Low	Winter	Rectal	14	15	0	0	0	3
T1	1	Low	Winter	Rectal	21	15	0	2	0	1
T1	1	Low	Winter	Rectal	28	15	0	2	1	0
T1	1	Low	Winter	Rectal	35	15	0	3	0	0
T1	1	Low	Winter	Rectal	42	0	0	0	0	0
T1	1	Low	Winter	Rectal	49	15	0	3	0	0
T1	1	Low	Winter	Rectal	56	15	0	3	0	0
T10	2	Low	Winter	Rectal	0	0	0	0	0	0
T10	2	Low	Winter	Rectal	1	3570	4	2	1	5
T10	2	Low	Winter	Rectal	3	84000	0	1	1	10
T10	2	Low	Winter	Rectal	7	30	0	1	0	0
T10	2	Low	Winter	Rectal	14	0	0	0	0	0
T10	2	Low	Winter	Rectal	21	0	0	0	0	0
T10	2	Low	Winter	Rectal	28	0	0	0	0	0
T10	2	Low	Winter	Rectal	35	0	0	0	0	0
T10	2	Low	Winter	Rectal	42	0	0	0	0	0
T10	2	Low	Winter	Rectal	49	0	0	0	0	0
T10	2	Low	Winter	Rectal	56	0	0	0	0	0
T12	6	Low	Winter	Rectal	0	0	0	0	0	0
T12	6	Low	Winter	Rectal	1	780	6	2	1	3
T12	6	Low	Winter	Rectal	3	51600	2	3	5	2
T12	6	Low	Winter	Rectal	7	5010	3	0	2	7

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T12	6	Low	Winter	Rectal	14	15	0	1	0	0
T12	6	Low	Winter	Rectal	21	0	0	0	0	0
T12	6	Low	Winter	Rectal	28	0	0	0	0	0
T12	6	Low	Winter	Rectal	35	0	0	0	0	0
T12	6	Low	Winter	Rectal	42	0	0	0	0	0
T12	6	Low	Winter	Rectal	49	0	0	0	0	0
T12	6	Low	Winter	Rectal	56	0	0	0	0	0
T17	9	Low	Winter	Rectal	0	0	0	0	0	0
T17	9	Low	Winter	Rectal	1	306000	6	1	5	0
T17	9	Low	Winter	Rectal	3	294000	2	2	0	8
T17	9	Low	Winter	Rectal	7	60	0	2	0	0
T17	9	Low	Winter	Rectal	14	60	1	1	0	0
T17	9	Low	Winter	Rectal	21	120	1	4	0	1
T17	9	Low	Winter	Rectal	28	90	3	0	0	0
T17	9	Low	Winter	Rectal	35	15	1	0	0	2
T17	9	Low	Winter	Rectal	42	15	0	3	0	0
T17	9	Low	Winter	Rectal	49	180	0	9	0	0
T17	9	Low	Winter	Rectal	56	30	0	0	0	1
T2	2	Low	Winter	Rectal	0	0	0	0	0	0
T2	2	Low	Winter	Rectal	1	26700	6	2	0	4
T2	2	Low	Winter	Rectal	3	55800	9	0	3	0
T2	2	Low	Winter	Rectal	7	240	5	2	0	1
T2	2	Low	Winter	Rectal	14	270	3	6	0	0
T2	2	Low	Winter	Rectal	21	90	5	0	0	0
T2	2	Low	Winter	Rectal	28	15	3	0	0	0
T2	2	Low	Winter	Rectal	35	30	1	0	0	0
T2	2	Low	Winter	Rectal	42	0	0	0	0	0
T2	2	Low	Winter	Rectal	49	15	3	0	0	0
T2	2	Low	Winter	Rectal	56	15	1	2	0	0
T20	9	Low	Winter	Rectal	0	0	0	0	0	0
T20	9	Low	Winter	Rectal	1	42000	6	1	1	4
T20	9	Low	Winter	Rectal	3	6600	5	1	1	5
T20	9	Low	Winter	Rectal	7	75600	3	0	1	8
T20	9	Low	Winter	Rectal	14	120	0	0	4	0
T20	9	Low	Winter	Rectal	21	15	0	0	0	3
T20	9	Low	Winter	Rectal	28	0	0	0	0	0
T20	9	Low	Winter	Rectal	35	0	0	0	0	0
T20	9	Low	Winter	Rectal	42	0	0	0	0	0

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T20	9	Low	Winter	Rectal	49	0	0	0	0	0
T20	9	Low	Winter	Rectal	56	0	0	0	0	0
T4	4	Low	Winter	Rectal	0					
T4	4	Low	Winter	Rectal	1					
T4	4	Low	Winter	Rectal	3					
T4	4	Low	Winter	Rectal	7					
T4	4	Low	Winter	Rectal	14					
T4	4	Low	Winter	Rectal	21					
T4	4	Low	Winter	Rectal	28					
T4	4	Low	Winter	Rectal	35					
T4	4	Low	Winter	Rectal	42					
T4	4	Low	Winter	Rectal	49					
T4	4	Low	Winter	Rectal	56					
T6	4	Low	Winter	Rectal	0	0	0	0	0	0
T6	4	Low	Winter	Rectal	1	21600	5	2	1	4
T6	4	Low	Winter	Rectal	3	8700	1	0	0	11
T6	4	Low	Winter	Rectal	7	3320	0	0	1	11
T6	4	Low	Winter	Rectal	14	90	0	0	0	3
T6	4	Low	Winter	Rectal	21	60	0	0	0	1
T6	4	Low	Winter	Rectal	28	30	0	0	0	1
T6	4	Low	Winter	Rectal	35	0	0	0	0	0
T6	4	Low	Winter	Rectal	42	0	0	0	0	0
T6	4	Low	Winter	Rectal	49	0	0	0	0	0
T6	4	Low	Winter	Rectal	56	0	0	0	0	0
T8	6	Low	Winter	Rectal	0	0	0	0	0	0
T8	6	Low	Winter	Rectal	1	612000	5	0	3	4
T8	6	Low	Winter	Rectal	3	963000	1	2	1	8
T8	6	Low	Winter	Rectal	7	1830	0	0	0	12
T8	6	Low	Winter	Rectal	14	15	2	1	0	0
T8	6	Low	Winter	Rectal	21	15	1	1	0	1
T8	6	Low	Winter	Rectal	28	60	1	1	0	0
T8	6	Low	Winter	Rectal	35	30	0	1	0	0
T8	6	Low	Winter	Rectal	42	30	0	1	0	0
T8	6	Low	Winter	Rectal	49	60	0	2	0	0
T8	6	Low	Winter	Rectal	56	60	4	0	0	0
T9	1	Low	Winter	Rectal	0	0	0	0	0	0
T9	1	Low	Winter	Rectal	1	69300	1	7	1	3
T9	1	Low	Winter	Rectal	3	32100	5	2	3	2

Animal ID	Pen ID	Dose	Season	Route	Day	STEC O157 CFU counts	Strain C1	Strain C2	Strain B1	Strain B2
T9	1	Low	Winter	Rectal	7	81000	4	6	0	2
T9	1	Low	Winter	Rectal	14	1170	0	12	0	0
T9	1	Low	Winter	Rectal	21	420	0	12	0	0
T9	1	Low	Winter	Rectal	28	0	0	0	0	0
T9	1	Low	Winter	Rectal	35	0	0	0	0	0
T9	1	Low	Winter	Rectal	42	0	0	0	0	0
T9	1	Low	Winter	Rectal	49	0	0	0	0	0
T9	1	Low	Winter	Rectal	56	0	0	0	0	0

Table S2: Number of animals with STEC O157 RAJ colonization by trial and day

Trial	Day 0	Day 1	Day 3	Day 7	Day 14	Day 21	Day 28	Day 35	Day 42	Day 49	Day 56
High Dose - Summer	5	20	20	19	12	9	9	7	7	3	3
High Dose - Winter	1	20	20	20	16	12	10	9	9	8	7
Low Dose - Summer	3	20	19	17	12	8	6	6	3	1	0
Low Dose - Winter	1	19	19	19	13	11	8	6	5	5	5

Trial ^a	Route	Pen	Animal	Genotypes Present ^b										
				Day 0	Day 1	Day 3	Day 7	Day 14	Day 21	Day 28	Day 35	Day 42	Day 49	Day 56
			9 T17	B2	C2/B2(4)	B2(3)	B2	B2,	B2	B2	B2	B2	B2	B2
			9 T20		C1(3)	B1(3)	B1/B2(2)	C/B1(2)	B2(2)	B2	B2	B2	B2	B2
	Rectal		3 T3		B2(3)	C1(3)	C2(3)	B2	B2	B2	B2	B2	B2	B2
			3 T5		B2(4)	B1/B2(4)	C1(4)	B2(3)						
			5 T15		B2(4)	C2(3)	B2(3)	C2	B2					
			5 T7		C1(3)	C1/B2(2)	B2(4)	C1(4)	C1(2)	C1/C2(2)	C1(4)	C2(3)	B2(2)	C1
			7 T11		C1(2)	C2(4)	B2(2)	C2						
			7 T13		C1(3)	B1(4)	B2(2)	B2	C2(2)	C2	C1	C1	C1	
			8 T14		B1(4)	B2(3)	B2(3)	C2(2)	B2	B2	B2	B2	B2	B2
			8 T16		B2(4)	C1/B2(4)	C1(4)	C1	C1	C1	C1	C1	C1	C1
			10 T18		B1(3)	B2(3)	B2(4)	B2(4)	C1	B2				
			10 T19		B1/B2(4)	B2(3)	C2	B2						
LS	Oral		3 T3		B1(4)	B1	B1	B1	B1	B1	B1			
			3 T5		B1(4)									
			5 T15		B1(3)	C1(2)	C1(3)	C1		C2	C1			
			5 T7		B1(3)	B1								
			7 T11		C1/B1(2)	B2(3)	B1(2)	C1						
			7 T13		C1(2)	C1(2)	B1(2)	C1	B1(2)	C1(2)	C1	C1		
			8 T14		C1(2)	B1	B1	B1	B1	B1	B1	B1	C1	
			8 T16		B1	B1(2)	B1(3)	B2(3)						
			10 T18		B1(3)	C1(3)	B1(4)							
			10 T19	C2	B1(2)	B1								
	Rectal		1 T1		C2(3)	B2(2)	C2							
			1 T9		C1	C1/C2(2)	C1(2)	C1	C1/C2(2)	C2	C1			
			2 T10		B2(4)	B2(4)	B2(2)	B2						
			2 T2	C2	C2(2)	C2	C2							
			4 T4		C1		B2,	B2	B2					
			4 T6		C1(3)	C1(3)	C2(4)							
			6 T12		C2(4)	B2(3)	B2(2)	B2(2)	B2					
			6 T8		C1(4)	C1(3)	C1/B2(2)							

Trial ^a	Route	Pen	Animal	Genotypes Present ^b												
				Day 0	Day 1	Day 3	Day 7	Day 14	Day 21	Day 28	Day 35	Day 42	Day 49	Day 56		
			9 T17	C1	C1(3)	B2(2)	B2	B2	B2	B2	B2		C1			
			9 T20		B2(4)	B2(3)	C1(2)	C1								
LW	Oral		3 T3		B1(2)	C1(3)	B2(2)									
			3 T5		B1(2)	C1	C1	C1								
			5 T15		B1(3)	C1(3)	C2(2)	B2	B2							
			5 T7		B1(3)	B2,	C1/B2(2)	B2(2)	C1/B2(2)	C1	C1					
			7 T11		B1(2)	B1(2)	B1(3)									
			7 T13	B2	B1(2)	B1(2)	C1(3)		B1	C2						
			8 T14		C1(4)	C1/B1(4)	B2(3)	B2	B2(2)	B2	B2	B2	B2	B2		
			8 T16		C1(3)	B1(3)	B2(2)									
			10 T18		C1/B1(2)	C1/B1(2)	B1(2)									
			10 T19		C1(2)	B1(2)	C1/B1(2)									
			Rectal		1 T1		B1(3)	C2/B2(4)	C1	B2	C2(2)	C2(2)	C2		C2	C2
				1 T9		C2(4)	C1(4)	C2(3)	C2	C2						
				2 T10		B2(4)	B2(3)	C2								
				2 T2		C1(3)	C1(2)	C1(3)	C2(2)	C1	C1	C1		C1	C2(2)	
	4 T4															
	4 T6			C1(4)	B2(2)	B2(2)	B2	B2	B2							
	6 T12			C1(4)	B1(4)	B2(3)	C2									
	6 T8			C1(3)	B2(4)	B2	C1(2)	C1/C2/B2	C1/C2(2)	C2	C2	C2	C1			
	9 T17			C1(3)	B2(3)	C2	C1/C2(2)	C2(3)	C1	B2(2)	C2	C2	B2			
	9 T20			C1(4)	C1/B2(4)	B2(3)	B1	B2								

^a The 20 mature Holstein steers received a single dose of a cocktail of four STEC O157 strains in approximately equal numbers in each trial [HS (high dose, summer), HW (high dose, winter), LS (low dose, summer) and LW (low dose, winter)]. Strains C1 and C2 representing two common clinical genotypes and B1 and B2 representing two common bovine-biased genotypes.

^b Genotype at highest CFU (number of different genotypes detected). When only single genotype was detected, "the number of different genotypes detected" is not mentioned.