

Supplementary information

Table S1. Concentration of bacteria *E. Coli* in active sampling in LPR feedlot pens on 20th February 2020. Sampling site, local time (H, HH:MM), Pump output (Q, L/min), sampling period (t, min), sampling volume (V, m³), count (R, CFU (colony forming units)), count of *E. coli* per m³ of air (R, CFU/m³).

ID	A1	A2	A3	A4	A5	A6	A7
Sampling site	M2	M1	M3	M4	M5	M6	M8
H	11:40	11:46	12:01	12:26	12:35	12:55	13:26
Q (L/min)	30	30	30	30	30	30	30
t (min)	1	1	1	10	1	1	1
V (m ³)	0.03	0.03	0.03	0.3	0.03	0.03	0.03
R (CFU)	0	37	39	Very high	22	89	2
R (CFU/ m ³)	0	1233	1300	Very high	733	2967	67

Table S2. Concentration of *E. coli* in active sampling around LPR feedlot pens on 20th February 2020. Sampling site, local time (H, HH:MM), Pump output (Q, L/min), sampling period (t, min), sampling volume (V, m³), *E. coli* colonies number (N, CFU (colony forming units)), *E. coli* concentration (C, CFU/m³), w/c: saturated Petri dishes without count.

ID	A8	A9	A10	A11	A12	A13
Sampling site	M9	M10	M12	M13	M14	M15
H	13:35	13:45	13:55	14:05	14:15	14:26
Q (L/min)	30	30	30	30	30	30
t (min)	1	3	3	3	5	10
V (m ³)	0.3	0.90	0.9	0.9	0.15	0.3
N (CFU)	w/c	10	3	w/c	3	w/c
C (CFU / m ³)	w/c	111	33	w/c	20	w/c

Table S3. Concentration of *E. coli* in active sampling in LPR feedlot pens on 5th April 2022. Sampling site, local time (H, hh:mm), Pump output (Q, L/min), **no/ r: without count**, sampling period (t, min), sampling volume (V, m³), *E. coli* colonies number (N, CFU (colony forming units)), *E. coli* concentration (C, CFU/m³). w/c: saturated Petri dishes without count.

ID	A2	A18	A16	A15	A14	A21	A22	A23	A24
Sampling site	M7	M5	M2	M1	M20	M21	M16	M23	M23
H	12:05	12:23	12:35	12:45	12:53	13:03	13:15	13:45	14:08
Q (l/min)	30	30	30	30	30	30	30	30	30
t (min)	1	1	1	1.06	1	3	3	3	10
V (m ³)	0.03	0.03	0.03	0.0318	0.03	0.09	0.09	0.09	0.3
N (CFU)	w/c	1	0	0	0	1	0	0	0
C (CFU/ m ³)	w/c	33	0	0	0	11	0	0	0

Table S4. Deposition of bacteria *E. Coli* in passive sampling in LPR feedlot pens on 5th April 2022. Sampling site, sampling period (t, min), *E. coli* colonies number (N, CFU (colony forming units)), *E. coli* deposition rate (DR, CFU/m² s) w/c: saturated Petri dishes without count.

ID	P6	P7	P8	P9	P10	P11	P12
Sampling site	M11	M5	M5	M2	M2	M1	M1
t (min)	30	10	30	10	30	10	30
C (CFU)	12	6	15	1	w/c	1	3
DR (CFU/m ² s)	2.096	3.144	2.620	0.524	w/c	0.524	0.524

Table S5. Deposition of *E. coli* in the passive sampling around the LPR feedlot pens on 5th April 2022. Sampling site, sampling period (t, min), *E. coli* colonies number (N, CFU (colony forming units)), *E. coli* deposition rate (DR, CFU/m² s), w/c: saturated Petri dishes without count.

ID	P13	P14	P15	P16	P17	P18	P19	P20	P21
Sampling site	M21	M21	M20	M20	M17	M17	M18	M19	M21
t (min)	10	30	10	30	10	30	30	30	30
C (CFU)	1	w/c	w/c	9	w/c	4	2	1	3
DR (CFU/m² s)	0.524	w/c	w/c	1.572	w/c	0.699	0.349	0.175	0.524