

SUPPLEMENTARY MATERIAL

For

Disinfectant and Antimicrobial Susceptibility Profiles of *Salmonella* Strains from Feedlot Water-Sprinkled Cattle: Hides and Feces

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Table S1 through Table S23.

TABLE S1. Antimicrobial resistance profile of one hide strain of *Salmonella enterica* serovar Anatum.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	2	2	2	0 (0)	≥64
Gentamicin	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8	0 (0)	≥64
Streptomycin	≤ 32	≤ 32	≤ 32	0 (0)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	≤ 1/0.5	≤ 1/0.5	0 (0)	≥32/16
Ampicillin	≤ 1	≤ 1	≤ 1	0 (0)	≥32
Ceftiofur	1	1	1	0 (0)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥64
Cefoxitin	8	8	8	0 (0)	≥32
Cephalothin	4	4	4	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	0.03	0.03	0.03	0 (0)	≥1
Nalidixic acid	4	4	4	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	8	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	256	256	256	0 (0)	≥512
Trimethoprim/ Sulfamethoxazole	0.5/9.5	0.5/9.5	0.5/9.5	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4	0 (0)	≥16

TABLE S2. Antimicrobial resistance profiles among 9 hide strains of *Salmonella enterica* serovar Cerro.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	1	1	≤ 0.5 – 2	0 (0)	≥64
Gentamicin	≤ 0.25	≤ 0.25	≤ 0.25 – 0.5	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8	0 (0)	≥64
Streptomycin	≤ 32	≤ 32	≤ 32 – 64	1 (11.1)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	2/1	≤ 1/0.5 – 2/1	0 (0)	≥32/16
Ampicillin	≤ 1	≤ 1	≤ 1	0 (0)	≥32
Ceftiofur	0.5	0.5	0.5	0 (0)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥64
Cefoxitin	2	4	2 – 4	0 (0)	≥32
Cephalothin	4	4	4 – 8	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	0.03	0.03	≤ 0.015 – 0.03	0 (0)	≥1
Nalidixic acid	4	4	4	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	8	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	256	512	256 – 512	4 (44.4)	≥512
Trimethoprim/ Sulfamethoxazole	0.25/4.75	0.25/4.75	≤ 0.12/2.38 – 0.5/9.5	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4	0 (0)	≥16

TABLE S3. Antimicrobial resistance profile of one hide strain of *Salmonella enterica* serovar Gaminara.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	≤ 0.5	≤ 0.5	≤ 0.5	0 (0)	≥64
Gentamicin	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8	0 (0)	≥64
Streptomycin	≤ 32	≤ 32	≤ 32	0 (0)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	≤ 1/0.5	≤ 1/0.5	0 (0)	≥32/16
Ampicillin	≤ 1	≤ 1	≤ 1	0 (0)	≥32
Ceftiofur	1	1	1	0 (0)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥64
Cefoxitin	2	2	2	0 (0)	≥32
Cephalothin	4	4	4	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	0.03	0.03	0.03	0 (0)	≥1
Nalidixic acid	4	4	4	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	8	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	64	64	64	0 (0)	≥512
Trimethoprim/ Sulfamethoxazole	≤ 0.12/2.38	≤ 0.12/2.38	≤ 0.12/2.38	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4	0 (0)	≥16

TABLE S4. Antimicrobial resistance profiles among 45 hide strains of *Salmonella enterica* serovar Kentucky.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	1	2	≤ 0.5 – 4	0 (0)	≥64
Gentamicin	≤ 0.25	0.5	≤ 0.25 – 4	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8	0 (0)	≥64
Streptomycin	64	>64	≤ 32 – >64	32 (71.1)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	≤ 1/0.5	≤ 1/0.5 – 2/1	0 (0)	≥32/16
Ampicillin	≤ 1	≤ 1	≤ 1 – 2	0 (0)	≥32
Ceftiofur	0.5	0.5	≤ 0.12 – 1	0 (0)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25 – 0.5	0 (0)	≥64
Cefoxitin	2	4	2 – 16	1 (2.2)	≥32
Cephalothin	≤ 2	4	≤ 2 – 8	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	≤ 0.015	0.03	≤ 0.015 – 0.12	0 (0)	≥1
Nalidixic acid	4	4	4	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	8	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	64	128	≤ 16 – 512	1 (2.2)	≥512
Trimethoprim/ Sulfamethoxazole	≤ 0.12/2.38	≤ 0.12/2.38	≤ 0.12/2.38 – 0.25/4.75	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4 – 8	0 (0)	≥16

TABLE S5. Antimicrobial resistance profiles among 13 hide strains of *Salmonella enterica* serovar Meleagridis.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	1	2	≤ 0.5 – 2	0 (0)	≥64
Gentamicin	≤ 0.25	0.5	≤ 0.25 – 1	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8 – 32	0 (0)	≥64
Streptomycin	≤ 32	≤ 32	≤ 32	0 (0)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	2/1	≤ 1/0.5 – 32/16	1 (7.7)	≥32/16
Ampicillin	≤ 1	2	≤ 1 – 8	0 (0)	≥32
Ceftiofur	1	1	1 – >8	1 (7.7)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25 – 4	0 (0)	≥64
Cefoxitin	8	8	8	0 (0)	≥32
Cephalothin	4	8	4 – 8	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	0.03	0.03	0.03 – 0.12	0 (0)	≥1
Nalidixic acid	8	8	4 – 8	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	8	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	32	64	≤ 16 – 128	0 (0)	≥512
Trimethoprim/ Sulfamethoxazole	≤ 0.12/2.38	≤ 0.12/2.38	≤ 0.12/2.38 – 0.5/9.5	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4	0 (0)	≥16

TABLE S6. Antimicrobial resistance profiles among 30 hide strains of *Salmonella enterica* serovar Muenster.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	1	2	≤ 0.5 – 2	0 (0)	≥64
Gentamicin	≤ 0.25	0.5	≤ 0.25 – 1	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8	0 (0)	≥64
Streptomycin	≤ 32	≤ 32	≤ 32	0 (0)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	≤ 1/0.5	≤ 1/0.5 – 1	0 (0)	≥32/16
Ampicillin	≤ 1	≤ 1	≤ 1	0 (0)	≥32
Ceftiofur	1	1	0.5 – 1	0 (0)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥64
Cefoxitin	4	8	2 – 8	0 (0)	≥32
Cephalothin	4	8	≤ 2 – 8	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	0.03	0.03	≤ 0.015 – 0.03	0 (0)	≥1
Nalidixic acid	4	4	4	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	8 – 16	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	64	512	32 – >512	4 (13.3)	≥512
Trimethoprim/ Sulfamethoxazole	≤ 0.12/2.38	≤ 0.12/2.38	≤ 0.12/2.38	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4	0 (0)	≥16

TABLE S7. Antimicrobial resistance profiles among 20 feces strains of *Salmonella enterica* serovar Kentucky.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	1	2	≤ 0.5 – 4	0 (0)	≥64
Gentamicin	≤ 0.25	≤ 0.25	≤ 0.25 – 2	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8 – 16	0 (0)	≥64
Streptomycin	64	>64	≤ 32 – >64	18 (90)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	≤ 1/0.5	≤ 1/0.5	0 (0)	≥32/16
Ampicillin	≤ 1	≤ 1	≤ 1	0 (0)	≥32
Ceftiofur	0.5	1	0.5 – 1	0 (0)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥64
Cefoxitin	2	4	2 – >16	1 (5)	≥32
Cephalothin	≤ 2	4	≤ 2 – 4	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	≤ 0.015	0.03	≤ 0.015 – 0.12	0 (0)	≥1
Nalidixic acid	4	4	4	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	4 – 8	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	64	128	32 – >512	1 (5)	≥512
Trimethoprim/ Sulfamethoxazole	≤ 0.12/2.38	≤ 0.12/2.38	≤ 0.12/2.38 – 0.25/4.75	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4	0 (0)	≥16

TABLE S8. Antimicrobial resistance profiles among 7 feces strains of *Salmonella enterica* serovar Meleagridis.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	1	1	≤ 0.5 – 1	0 (0)	≥64
Gentamicin	≤ 0.25	≤ 0.25	≤ 0.25 – 1	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8	0 (0)	≥64
Streptomycin	≤ 32	≤ 32	≤ 32	0 (0)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	≤ 1/0.5	≤ 1/0.5	0 (0)	≥32/16
Ampicillin	≤ 1	2	≤ 1 – 2	0 (0)	≥32
Ceftiofur	1	1	0.5 – 1	0 (0)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥64
Cefoxitin	8	8	2 – 8	0 (0)	≥32
Cephalothin	4	8	≤ 2 – 16	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	0.03	0.03	≤ 0.015 – 0.03	0 (0)	≥1
Nalidixic acid	4	8	4 – 8	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	8	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	32	64	≤ 16 – 256	0 (0)	≥512
Trimethoprim/ Sulfamethoxazole	≤ 0.12/2.38	≤ 0.12/2.38	≤ 0.12/2.38 – 0.5/9.5	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4	0 (0)	≥16

TABLE S9. Antimicrobial resistance profiles among 19 feces strains of *Salmonella enterica* serovar Muenster.

Antimicrobial	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	Range of MICs (µg/mL)	No. (%) Resistant	Breakpoint
Aminoglycosides					
Amikacin	1	2	≤ 0.5 – 4	0 (0)	≥64
Gentamicin	≤ 0.25	0.5	≤ 0.25 – 1	0 (0)	≥16
Kanamycin	≤ 8	≤ 8	≤ 8	0 (0)	≥64
Streptomycin	≤ 32	≤ 32	≤ 32	0 (0)	≥64
β-Lactams					
Amoxicillin/ Clavulanic acid	≤ 1/0.5	≤ 1/0.5	≤ 1/0.5 – 2/1	0 (0)	≥32/16
Ampicillin	≤ 1	≤ 1	≤ 1 – 2	0 (0)	≥32
Ceftiofur	1	1	0.5 – 1	0 (0)	≥8
Ceftriaxone	≤ 0.25	≤ 0.25	≤ 0.25	0 (0)	≥64
Cefoxitin	4	8	4 – 8	0 (0)	≥32
Cephalothin	4	4	≤ 2 – 8	0 (0)	≥32
Fluoroquinolones and quinolones					
Ciprofloxacin	0.03	0.03	≤ 0.015 – 0.06	0 (0)	≥1
Nalidixic acid	4	8	4 – 16	0 (0)	≥32
Phenicol					
Chloramphenicol	8	8	8	0 (0)	≥32
Sulphonamides and potentiated sulphonamides					
Sulfamethoxazole	128	256	64 – >512	2 (10.5)	≥512
Trimethoprim/ Sulfamethoxazole	≤ 0.12/2.38	≤ 0.12/2.38	≤ 0.12/2.38	0 (0)	≥4/76
Tetracyclines					
Tetracycline	≤ 4	≤ 4	≤ 4	0 (0)	≥16

TABLE S10: Distribution of disinfectant and disinfectant component susceptibility profiles of one hide *Salmonella enterica* serovar Anatum strain from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096	8,192		
DC&R											1 ^b							128	128
Tek-Trol												1						256	256
Chlorhexidine						1												4	4
Triclosan	1																	0.12	0.12
P-128						1												4	4
BKC								1										16	16
P-I																1		4,096	4,096
FSS								1										16	16
F25									1									8	8
FS512									1									8	8
OdoBan								1										16	16
CPB										1								32	32
CPC										1								32	32
CDEAB										1								32	32
CTAB										1								32	32
C10AC ^c						1												4	4
C12BAC ^c										1								32	32
C14BAC ^c									1									16	16
C16BAC ^c									1									16	16
THN ^c											1							128	128
Formaldehyde ^c											1							64	64

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.

TABLE S11: Distribution of disinfectant and disinfectant component susceptibility profiles of 9 hide *Salmonella enterica* serovar Cerro strains from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096	8,192		
DC&R										1 ^b	8							128	128
Tek-Trol											1	8						256	256
Chlorhexidine					5	4												2	4
Triclosan	1	7	1															0.25	0.25
P-128					1	7	1											4	4
BKC								7	2									16	32
P-I															6	3		4,096	8,192
FSS							9											8	8
F25							7	2										8	16
FS512							9											8	8
OdoBan							2	6	1									16	16
CPB								9										16	16
CPC								9										16	16
CDEAB								1	8									32	32
CTAB								2	7									32	32
C10AC ^c					5	3	1											2	4
C12BAC ^c								1	8									32	32
C14BAC ^c								6	3									8	16
C16BAC ^c								1	8									16	16
THN ^c												8	1					256	256
Formaldehyde ^c								2	7									32	32

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.

TABLE S12: Distribution of disinfectant and disinfectant component susceptibility profiles of one hide *Salmonella enterica* serovar Gaminara strain from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096	8,192		
DC&R											1 ^b							128	128
Tek-Trol												1						256	256
Chlorhexidine						1												4	4
Triclosan		1																0.25	0.25
P-128						1												4	4
BKC								1										16	16
P-I																1		4,096	4,096
FSS								1										16	16
F25								1										16	16
FS512							1											8	8
OdoBan								1										16	16
CPB								1										16	16
CPC								1										16	16
CDEAB									1									32	32
CTAB									1									32	32
C10AC ^c						1												4	4
C12BAC ^c									1									32	32
C14BAC ^c								1										16	16
C16BAC ^c								1										16	16
THN ^c												1						256	256
Formaldehyde ^c								1										16	16

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.

TABLE S13: Distribution of disinfectant and disinfectant component susceptibility profiles of 45 hide *Salmonella enterica* serovar Kentucky strains from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096			8,192
DC&R										8 ^b	37							128	128
Tek-Trol											19	26						256	256
Chlorhexidine					2	38	5											4	8
Triclosan	6	35	4															0.25	0.25
P-128					1	44												4	4
BKC							3	42										16	16
P-I																35	10	4,096	8,192
FSS								41	4									8	8
F25								41	4									8	8
FS512								44	1									8	8
OdoBan						1	29	14	1									8	16
CPB									45									16	16
CPC								2	42	1								16	16
CDEAB									7	38								32	32
CTAB									2	42	1							32	32
C10AC ^c					14	30	1											4	4
C12BAC ^c									44	1								16	16
C14BAC ^c									37	8								8	16
C16BAC ^c									22	23								16	16
THN ^c												4	40	1				256	256
Formaldehyde ^c								31	13	1								16	32

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.

TABLE S14: Distribution of disinfectant and disinfectant component susceptibility profiles of 13 hide *Salmonella enterica* serovar Meleagridis strains from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096			8,192
DC&R										1 ^b	12							128	128
Tek-Trol											2	10	1					256	256
Chlorhexidine					1	12												4	4
Triclosan	1	10	2															0.25	0.5
P-128						11	2											4	8
BKC								5	7	1								32	32
P-I																9	4	4,096	8,192
FSS							5	8										16	16
F25							3	10										16	16
FS512							3	10										16	16
OdoBan								13										16	16
CPB								9	4									16	32
CPC								10	3									16	32
CDEAB									12	1								32	32
CTAB									12	1								32	32
C10AC ^c						12	1											4	4
C12BAC ^c								1	12									32	32
C14BAC ^c								13										16	16
C16BAC ^c								11	2									16	32
THN ^c											2	10	1					256	256
Formaldehyde ^c								4	8	1								32	32

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.

TABLE S15: Distribution of disinfectant and disinfectant component susceptibility profiles of 30 hide *Salmonella enterica* serovar Muenster strains from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096	8,192		
DC&R										2 ^b	28							128	128
Tek-Trol											10	20						256	256
Chlorhexidine					1	27	2											4	4
Triclosan	3	20	7															0.25	0.5
P-128						23	7											4	8
BKC								14	16									32	32
P-I															28	2		4,096	4,096
FSS							4	25	1									16	16
F25							7	23										16	16
FS512							10	20										16	16
OdoBan							2	28										16	16
CPB								16	14									16	32
CPC								25	5									16	32
CDEAB									30									32	32
CTAB									28	2								32	32
C10AC ^c					28	2												4	4
C12BAC ^c								1	28	1								32	32
C14BAC ^c								30										16	16
C16BAC ^c								30										16	16
THN ^c											5	23	2					256	256
Formaldehyde ^c							1	22	6	1								16	32

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.

TABLE S16: Distribution of disinfectant and disinfectant component susceptibility profiles of 20 feces *Salmonella enterica* serovar Kentucky strains from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096	8,192		
DC&R										1 ^b	18	1						128	128
Tek-Trol											9	11						256	256
Chlorhexidine						17	3											4	8
Triclosan	3	14	3															0.25	0.5
P-128						20												4	4
BKC							3	16	1									16	16
P-I															1	16	3	4,096	8,192
FSS							17	3										8	16
F25							18	2										8	8
FS512							19	1										8	8
OdoBan							13	7										8	16
CPB							1	19										16	16
CPC							1	19										16	16
CDEAB								6	13	1								32	32
CTAB								4	16									32	32
C10AC ^c					7	12	1											4	4
C12BAC ^c									19	1								16	16
C14BAC ^c								13	6	1								8	16
C16BAC ^c								11	9									8	16
THN ^c											2	15	3					256	512
Formaldehyde ^c							1	7	12									32	32

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.

TABLE S17: Distribution of disinfectant and disinfectant component susceptibility profiles of 7 feces *Salmonella enterica* serovar Meleagridis strains from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)	
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096			8,192
DC&R											7 ^b							128	128
Tek-Trol															7			256	256
Chlorhexidine						7												4	4
Triclosan		6	1															0.25	0.25
P-128						6	1											4	4
BKC								3	4									32	32
P-I																4	3	4,096	8,192
FSS							2	5										16	16
F25							1	6										16	16
FS512							1	6										16	16
OdoBan							1	6										16	16
CPB								4	3									16	32
CPC								4	3									16	32
CDEAB									6	1								32	32
CTAB									3	4								64	64
C10AC ^c					1	4	1	1										4	8
C12BAC ^c									7									32	32
C14BAC ^c							1	6										16	16
C16BAC ^c								7										16	16
THN ^c											1	6						256	256
Formaldehyde ^c								2	3	2								64	128

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.

TABLE S18: Distribution of disinfectant and disinfectant component susceptibility profiles of 19 feces *Salmonella enterica* serovar Muenster strains from water-sprinkled cattle.

Disinfectant ^a	MIC (µg/mL)																	MIC ₅₀ (µg/mL)	MIC ₉₀ (µg/mL)
	0.12	0.25	0.5	1	2	4	8	16	32	64	128	256	512	1,024	2,048	4,096	8,192		
DC&R										3 ^b	15	1						128	128
Tek-Trol											4	15						256	256
Chlorhexidine						16	3											4	8
Triclosan	4	12	3															0.25	0.5
P-128						14	5											4	8
BKC								9	10									32	32
P-I															1	17	1	4,096	4,096
FSS							3	16										16	16
F25							3	16										16	16
FS512							5	14										16	16
OdoBan							2	17										16	16
CPB								7	12									32	32
CPC								17	2									16	16
CDEAB									19									32	32
CTAB									16	3								32	64
C10AC ^c						18	1											4	4
C12BAC ^c									19									32	32
C14BAC ^c									19									16	16
C16BAC ^c									19									16	16
THN ^c											2	16	1					256	256
Formaldehyde ^c								10	8	1								16	32

^a Disinfectant and disinfectant component abbreviations: BKC, benzalkonium chloride; CPB, cetylpyridinium bromide hydrate; CPC, hexadecylpyridinium chloride monohydrate; CDEAB, ethylhexadecyldimethylammonium bromide; CTAB, hexadecyltrimethylammonium bromide; FS512, Final Step 512 Sanitizer; FSS, Food Service Sanitizer; F25, F-25 Sanitizer; P-I, providone-iodine; C10AC, didecyldimethylammonium chloride; C12BAC, benzyldimethyldodecylammonium chloride; C14BAC, benzyldimethyltetradecylammonium chloride; C16BAC, benzyldimethylhexadecylammonium chloride; and THN, tris(hydroxymethyl)nitromethane.

^b Number of strains at this MIC.

^c These entries are disinfectant components.