**Table S1.** MLST profiles of *C. jejuni* and *C. coli* from breeders, fattening turkeys and the farm environment.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Farm/House** | **Cycle/Sampling time** | **Source** | **Species** | **Allelic profile** | | | | | | | **ST** | **ST-CC** | **Number of isolates** |
| ***asp*** | ***gln*** | ***glt*** | ***gly*** | ***pgm*** | ***tkt*** | ***unc*** |
| **Breeders** | **Flock 1** | Cloacal swabs | *C. jejuni* | 57 | 53 | 4 | 28 | 363 | 3 | 35 | 6941\* | NA | 2 |
| 198 | 2 | 2 | 2 | 11 | 61 | 6 | 2863 | 354 | 5 |
| *C. coli* | 33 | 39 | 30 | 549\*\* | 113 | 43 | 17 | 6940\* | 828 | 1 |
| 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| **Flock 2** | Cloacal swabs | *C. jejuni* | 57 | 53 | 4 | 28 | 363 | 3 | 35 | 6941\* | NA | 2 |
| 198 | 2 | 2 | 2 | 11 | 61 | 6 | 2863 | 354 | 5 |
| *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 4 |
| **Flock 3** | Cloacal swabs | *C. jejuni* | 57 | 53 | 4 | 28 | 363 | 3 | 35 | 6941\* | NA | 6 |
| *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 3 |
| **Farm A/House 1** | **1st cycle/5th wks** | Caecal faeces | *C. jejuni* | 9 | 17 | 5 | 10 | 350 | 3 | 3 | 2274 | NA | 1 |
| *C. coli* | 33 | 176 | 30 | 82 | 113 | 85 | 17 | 2912 | 828 | 3 |
| Anteroom overshoes | *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| Drinkers | *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| **1st cycle/10th wks** | Caecal faeces | *C. jejuni* | 7 | 17 | 2 | 15 | 23 | 3 | 12 | 51 | 443 | 1 |
| 9 | 17 | 5 | 10 | 350 | 3 | 3 | 2274 | NA | 1 |
| *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 2 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| Drinkers | *C. jejuni* | 7 | 17 | 2 | 15 | 23 | 3 | 12 | 51 | 443 | 2 |
| Flies | *C. jejuni* | 7 | 17 | 2 | 15 | 23 | 3 | 12 | 51 | 443 | 2 |
| **1st cycle/13th wks** | Caecal faeces | *C. jejuni* | 7 | 17 | 52 | 10 | 89 | 3 | 6 | 2116 | 353 | 1 |
| 9 | 17 | 1 | 10 | 350 | 1 | 5 | 8347\* | NA | 1 |
| 7 | 254 | 1 | 3 | 23 | 1 | 12 | 223 | 443 | 1 |
| *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 2 |
| In-house overshoes | *C. jejuni* | 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 1 |
| *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| Drinkers | *C. jejuni* | 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 1 |
| Flies | *C. jejuni* | 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 2 |
| *Alphitobius diaperinus* | *C. jejuni* | 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 1 |
| **Farm A/House 2** | **1st cycle/5th wks** | Caecal faeces | *C. coli* | 33 | 176 | 30 | 82 | 113 | 85 | 17 | 2912 | 828 | 2 |
| Drinkers | *C. jejuni* | 9 | 17 | 5 | 10 | 350 | 3 | 3 | 2274 | NA | 1 |
| *C. coli* | 33 | 176 | 30 | 82 | 113 | 85 | 17 | 2912 | 828 | 1 |
| *Alphitobius diaperinus* | *C. jejuni* | 7 | 17 | 2 | 15 | 23 | 3 | 12 | 51 | 443 | 2 |
| **1st cycle/10th wks** | Caecal faeces | *C. jejuni* | 7 | 17 | 52 | 10 | 89 | 3 | 6 | 2116 | 353 | 1 |
| 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 1 |
| *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 2 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| Drinkers | *C. jejuni* | 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 1 |
| *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| *Alphitobius diaperinus* | *C. jejuni* | 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 2 |
| Flies | *C. jejuni* | 7 | 17 | 2 | 15 | 23 | 3 | 12 | 51 | 443 | 2 |
| **1st cycle/13th wks** | Caecal faeces | *C. jejuni* | 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 2 |
| *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 2 |
| In-house overshoes | *C. jejuni* | 9 | 2 | 4 | 62 | 4 | 5 | 6 | 257 | 257 | 1 |
| 2 | 1 | 1 | 3 | 7 | 1 | 5 | 104 | 21 | 1 |
| *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| *Alphitobius diaperinus* | *C. jejuni* | 198 | 2 | 2 | 2 | 11 | 61 | 6 | 2863 | 354 | 2 |
| **Farm A/House 1** | **2nd cycle/5th wks** | Caecal faeces | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 2 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| *Alphitobius diaperinus* | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| Mouse | *C. jejuni* | 9 | 17 | 5 | 10 | 350 | 3 | 3 | 2274 | NA | 2 |
| **2nd cycle/10th wks** | Caecal faeces | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| Drinkers | *C. jejuni* | 9 | 17 | 5 | 10 | 350 | 3 | 3 | 2274 | NA | 1 |
| 47 | 2 | 5 | 10 | 11 | 48 | 8 | 2850 | 446 | 1 |
| *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| **3rd cycle/14th wks** | Caecal faeces | *C. coli* | 81 | 104 | 69 | 113 | 143 | 43 | 67 | 1764 | NA | 1 |
| In-house overshoes | *C. coli* | 81 | 104 | 69 | 113 | 143 | 43 | 67 | 1764 | NA | 1 |
| Drinkers | *C. coli* | 81 | 104 | 69 | 113 | 143 | 43 | 67 | 1764 | NA | 1 |
| **Farm B/House 1** | **1st cycle/5th wks** | Caecal faeces | *C. jejuni* | 47 | 2 | 5 | 10 | 11 | 48 | 8 | 2850 | 446 | 2 |
| *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| Drinkers | *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| *Alphitobius diaperinus* | *C. jejuni* | 47 | 2 | 5 | 10 | 11 | 48 | 8 | 2850 | 446 | 2 |
| **1st cycle/10th wks** | Caecal faeces | *C. jejuni* | 2 | 84 | 12 | 3 | 11 | 1 | 5 | 3102 | 21 | 1 |
| *C. coli* | 33 | 39 | 30 | 82 | 104 | 47 | 41 | 1170 | 828 | 1 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| Drinkers | *C. jejuni* | 7 | 254 | 2 | 15 | 23 | 3 | 12 | 2361 | 443 | 2 |
| **1st cycle/14th wks** | Caecal faeces | *C. jejuni* | 198 | 2 | 2 | 2 | 11 | 61 | 6 | 2863 | 354 | 2 |
| *C. coli* | 33 | 39 | 30 | 79 | 104 | 206 | 17 | 1628 | 828 | 1 |
| 33 | 176 | 30 | 82 | 113 | 43 | 17 | 1586 | 828 | 1 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 79 | 104 | 206 | 17 | 1628 | 828 | 1 |
| 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 1 |
| Flies | *C. coli* | 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 1 |
| 33 | 176 | 30 | 82 | 113 | 43 | 17 | 1586 | 828 | 1 |
| *Alphitobius diaperinus* | *C. jejuni* | 47 | 2 | 5 | 10 | 11 | 48 | 8 | 2850 | 446 | 2 |
| **Farm B/House 2** | **1st cycle/5th wks** | Caecal faeces | *C. coli* | 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 2 |
| 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| Anteroom overshoes | *C. jejuni* | 47 | 2 | 5 | 10 | 11 | 48 | 8 | 2850 | 446 | 2 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| Water line | *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 2 |
| **1st cycle/10th wks** | Caecal faeces | *C. jejuni* | 7 | 254 | 2 | 15 | 23 | 3 | 12 | 2361 | 443 | 1 |
| *C. coli* | 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 2 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 2 |
| Drinkers | *C. jejuni* | 198 | 2 | 2 | 2 | 11 | 61 | 6 | 2863 | 354 | 1 |
| 7 | 254 | 2 | 15 | 23 | 3 | 12 | 2361 | 443 | 1 |
| Flies | *C. coli* | 33 | 39 | 30 | 82 | 104 | 47 | 41 | 1170 | 828 | 2 |
| **1st cycle/14th wks** | In-house overshoes | *C. jejuni* | 2 | 84 | 12 | 3 | 11 | 1 | 5 | 3102 | 21 | 1 |
| Flies | *C. coli* | 33 | 39 | 30 | 82 | 104 | 47 | 41 | 1170 | 828 | 1 |
| **Farm B/House 1** | **2nd cycle/5th wks** | Caecal faeces | *C. coli* | 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 1 |
| 33 | 271 | 232 | 311 | 113 | 43 | 41 | 5401 | NA | 1 |
| Drinkers | *C. jejuni* | 7 | 17 | 52 | 10 | 89 | 3 | 6 | 2116 | 353 | 2 |
| Drinkers | *C. coli* | 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 2 |
| Flies | *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 1 |
| **2nd cycle/10th wks** | Caecal faeces | *C. jejuni* | 7 | 17 | 52 | 10 | 89 | 3 | 6 | 2116 | 353 | 2 |
| *C. coli* | 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 1 |
| In-house overshoes | *C. coli* | 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 1 |
| Drinkers | *C. coli* | 33 | 39 | 30 | 82 | 104 | 47 | 41 | 1170 | 828 | 1 |
| 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 2 |
| **2nd cycle/15th wks** | Caecal faeces | *C. coli* | 33 | 39 | 30 | 82 | 113 | 43 | 17 | 829 | 828 | 1 |
| 33 | 39 | 30 | 82 | 113 | 47 | 17 | 825 | 828 | 1 |
| Drinkers | *C. coli* | 33 | 39 | 30 | 82 | 104 | 47 | 41 | 1170 | 828 | 1 |
| 33 | 39 | 30 | 79 | 113 | 43 | 17 | 832 | 828 | 1 |
| **3rd cycle/5th wks** | In-house overshoes | *C. jejuni* | 9 | 17 | 5 | 10 | 350 | 3 | 3 | 2274 | NA | 2 |
| Drinkers | *C. jejuni* | 7 | 17 | 5 | 10 | 350 | 3 | 12 | 4242 | 353 | 1 |
| 9 | 17 | 5 | 10 | 350 | 3 | 3 | 2274 | NA | 1 |
| **3rd cycle/10th wks** | In-house overshoes | *C. coli* | 33 | 39 | 30 | 82 | 113 | 44 | 79 | 6689 | 828 | 1 |
| 292 | 66 | 30 | 82 | 113 | 206 | 17 | 5150 | NA | 1 |
| Drinkers | *C. coli* | 292 | 66 | 30 | 82 | 113 | 206 | 17 | 5150 | NA | 1 |
| 33 | 39 | 30 | 82 | 113 | 44 | 79 | 6689 | 828 | 1 |
| **3rd cycle/15th wks** | Caecal faeces | *C. coli* | 33 | 39 | 30 | 82 | 113 | 44 | 79 | 6689 | 828 | 1 |
| Drinkers | *C. coli* | 33 | 39 | 30 | 82 | 113 | 44 | 79 | 6689 | 828 | 1 |
| Flies | *C. coli* | 33 | 39 | 30 | 82 | 113 | 44 | 79 | 6689 | 828 | 1 |
| *Alphitobius diaperinus* | *C. coli* | 33 | 39 | 30 | 82 | 113 | 44 | 79 | 6689 | 828 | 1 |

\* Novel profile; \*\* novel allele; NA = not assigned.