

Table S1. Animal Information.

Experiment ID	Lactation No.	305-d Milk yield (kg)	DIM	Interval (d) from <i>E. coli</i> diagnosis to sampling	Treated for <i>E. coli</i> infection	Udder Health (if not <i>E. coli</i>)	Group for analysis
A4	4	10401	106	6	YES	NA	<i>E. coli</i> (+) EARLY
A2	1	8972	133	8	NO	NA	<i>E. coli</i> (+) EARLY
A9	1	9649	149	8	YES	NA	<i>E. coli</i> (+) EARLY
A10	1	8735	139	8	YES	NA	<i>E. coli</i> (+) EARLY
A8	2	9247	96	15	YES	NA	<i>E. coli</i> (+) EARLY
A3	1	9745	19	17	YES	NA	<i>E. coli</i> (+) EARLY
A1	4	10211	205	27	YES	NA	<i>E. coli</i> (+) LATE
A5	4	11230	155	48	YES	NA	<i>E. coli</i> (+) LATE
A17	2	10322	193	65	YES	NA	<i>E. coli</i> (+) LATE
A7#	1	8746	39	44	NO	NA	
A11	1	10277	116	NA	NA	No germ history	<i>E. coli</i> (-) CONT
A12	1	9840	201	NA	NA	No germ history	<i>E. coli</i> (-) CONT
A13	2	10876	88	NA	NA	No germ history	<i>E. coli</i> (-) CONT
A14	2	9967	59	NA	NA	No germ history	<i>E. coli</i> (-) CONT
A15	3	10675	79	NA	NA	No germ history	<i>E. coli</i> (-) CONT
A16	3	11335	89	NA	NA	Missing	<i>E. coli</i> (-) CONT
A6‡	2	9872	93	NA	NA	Unspecific Streptococci, Unspecific Enterobacter, Unspecific germs	<i>E. coli</i> (-) CONT‡
A18‡	4	11488	81	NA	NA	Unspecific germs	<i>E. coli</i> (-) CONT‡
A19‡	9	10341	205	NA	NA	Unspecific Streptococci, Unspecific Enterobacter, Unspecific germs	<i>E. coli</i> (-) CONT‡

DIM, days in milk; NA, not applicable; # Cow A7 omitted from all analyses as it had no clinical symptoms; ‡ Cows A6, A18 and A19 omitted from RNAseq analysis due to presence of udder infections other than *E. coli*.