

## Supplemental Materials to

### Homogeneity density scores of quarter milk in automatic milking systems.

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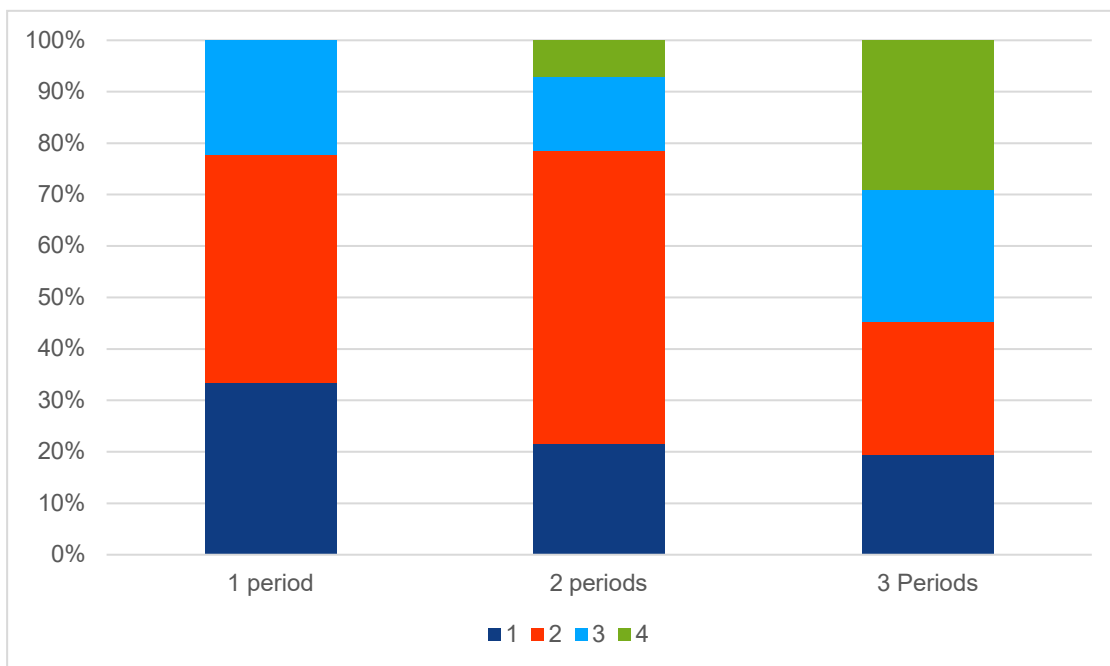
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**Figure S1.** The box with holders in which filters were photographed, together with the whiteboard displaying information about the sample. The entire box was first photographed, as shown; the filters were then photographed in close-up, for use in scoring.



**Figure S2.** Proportion (%) of cows with 1 to 4 individual quarters with sum scores (QPSS)  $\geq 1$  in cows with 1, 2 or 3 cow period sum scores (CPSS)  $\geq 1$  respectively.

**Table S1.** Farm information

	Farm			
	A	B	C	D
Start of data	9 March 2017	15 August 2017	1 February 2018	3 February 2018
collection periods	22 March 2017 11 April 2017	5 September 2017 27 September 2017	24 March 2018 4 April 2018	26 March 2018 6 April 2018
Number of automatic milking systems	2	3	2	3
Number of cows	145	175	113	191
Lactation 1, 2, and $\geq 3$	43/26/76	61/52/62	31/17/65	57/67/67
Milk production (kg/cow/year)	12,672	11,619	10,074	10,106
Somatic cell count (cells/mL)	285 000 <sup>a</sup>	184 000 <sup>b</sup>	236 000 <sup>a</sup>	106 000 <sup>a</sup>

<sup>a</sup>Arithmetic mean from monthly dairy herd improvement sampling; <sup>b</sup>Bulk tank arithmetic mean.

**Table S2.** Number of cows, milk inspections, quarters, and distribution of quarter milk scores (QMS) for each farm

	Farm				
	A	B	C	D	All
Individual cows	145	175	113	188	621
Checked milkings	1194	1519	1095	1590	5398
Checked quarters	4683	5926	4326	6267	21,202
Number of QMS (%)					
0	4425 (94.5)	5762 (97.2)	4095 (94.7)	6040 (96.4)	20,322 (95.7)
1	116 (2.5)	73 (1.2)	87 (2.0)	94 (1.5)	370 (1.8)
2	87 (1.9)	48 (0.8)	78 (1.8)	88 (1.4)	301 (1.5)
3	40 (0.9)	27 (0.5)	36 (0.8)	31 (0.5)	134 (0.7)
4	15 (0.3)	13 (0.2)	28 (0.7)	14 (0.2)	67 (0.4)
5	0 (0)	3 (0.1)	2 (0.1)	3 (0.1)	8 (0.0)