



Locatie: Rozendaal  
Kenmerk: IWEHO 392.020  
Betreffende: kiemreductie

Sirs,

With the 'Airwash' system of D.R.I. an average reduction by 93% in cell count in the teat cup was accomplished, with especially high cell counts a reduction of over 99% appearing to be possible.

Kind regards,  
'STICHTING GEZONDHEIDSDIENST  
VOOR DIEREN IN OOST-NEDERLAND'

Dr. E.G. Hartman



Reduction of the bacterial count on teat-liners by the Airwash-system of D.R.I.

### Experiment

The experiment with Airwash of D.R.I. was carried out under field conditions during a routine milking procedure.

The bacterial flora on the teat-liner represents the flora on the skin of the teats of the cows used in the experiment.

Samples were taken with a swab beginning at the 'bottom' of the teat-liner and moving outwards in a spiral of 5 loops.

The swabs were then immediately placed in 5 ml 0,5% NaCl solution containing 1% peptone and transported from the dairy-farm to the laboratory in a refrigerator box.

In the laboratory after shaking the sample thoroughly an aerobic bacterial count was carried out on 5% sheepblood-agar.

Dr. E.G. Hartman

Nr. Cow	Milk.claw	number of germs after 24 h.				number of germs after 48 h.				
		Before rinsing		after rinsing		before rinsing		after rinsing		
			10,5		10,5		10,5		10,5	
5	RV LV RA LA	1	120600	1,2	27360	0,3	241920	2,4	46080	0,5
			317520	3,2	15480	0,2	354240	3,5	23400	0,2
			345600	3,5	157680	1,6	540000	5,4	224640	2,2
			82080	0,8	82800	0,8	146840	1,5	194640	1,9
15	RV LV RA LA	5	62640	0,6	28080	0,3	267840	2,7	47520	0,5
			proteus		proteus		proteus		proteus	
			155520	1,6	388800	3,9	2410560	24,1	1529280	15,3
			1296000	13,0	proteus		15396480	154,0	6531840	65,3
20	RV LV RA LA	8	166320	1,7	22320	0,2	695520	7,0	34560	0,3
			23400	0,2	6480	0,1	54360	0,5	9360	0,1
			23400	0,2	3240	0,0	54360	0,5	3600	0,0
			648000	6,5	10800	0,1	868320	8,7	20160	0,2
22	RV LV RA LA	7	720	0,0	6480	0,1	4680	0,0	3960	0,0
			16920	0,2	18180	0,2	38880	0,4	26280	0,3
			153360	1,5	16950	0,2	375840	3,8	57960	0,6
			216000	2,2	14790	0,1	473040	4,7	61560	0,6
29	RV LV RA LA	2	13680	0,1	2520	0,0	64440	0,6	7200	0,1
			175680	1,8	16560	0,2	267840	2,7	24840	0,2
			23760	0,2	13320	0,1	59040	0,6	40680	0,4
			53280	0,5	19800	0,2	61200	0,6	47160	0,5
77	RV LV RA LA	6	557280	5,6	30600	0,3	1062720	10,6	34560	0,3
			21772800	217,7	1010880	10,1	22705920	227,1	1296000	13,0
			1944000	19,4	172800	1,7	5093280	50,9	352080	3,5
			8631360	86,3	866160	8,7	14307840	143,1	1438560	14,4
water 1			0			360	0,0			
water 2			0			6480				