Cell Count Controlmilk samples -Goat Milk - interlaboratory study March 2024- MS 03

No.	Instr.No.	Instr .	KIT Slope	KIT Inter-cept	No.03-March 24 Cell count Milk I cells	VK% `r´	% calc.	No.03-March 24 Cell count Milk II cells	VK% `r´	% calc.	No.03-March 24 Cell count Milk III cells	VK% `r´	% calc.	level *) Total %	Slope %
1	No.107/I	Combi FT+			910	1,3	**89%**	"1087	1,1	**76%**	"1423	1,2	**71%**	79%	
2	No. 109/I	DCC			"896	5,2	**89%**	"1186	2,8	**86%**	"1692	3,8	**85%**	87%	
3	No. 109/II	DCC			926		**91%**	1281		**86%**	1823	5,2	**88%**	88%	0,88
4	No. 46/1	FM FC	1,00	0	1012	1,6	**99%**	1193	2,6	**80%**	1770	2,8	**86%**	88%	0,76
5	No. 46/2	FM FC	1,00	0	964	1,6	**94%**	"1101	3,4	**79%**	1913	2,2	**93%**	89%	0,93
6	No. 40/2	BacSomatic			954	2,1	**93%**	1261	2,3	**85%**				89%	0,72
7	No.112/1	SC			951	1,5	**93%**	1447	1,4	**98%**	1957	0,4	**95%**	95%	0,98
8	No. 74	FM7 DC	1,00	0	971	2,4	**95%**	1413	1,4	**95%**	1959	1,0	**95%**	95%	0,96
9	No. 73	FM FC	1,00	0	971	2,4	**95%**	1413	2,4	**95%**	1959	1,0	**95%**	95%	0,96
10	No. 39/2	FM FC	1,03	0	1033	1,1	**101%**	1304	1,7	**88%**	2073	1,3	**100%**	96%	1,03
11	No.70	FM 7	1,00	0	964	0,9	**94%**	1497	1,7	**101%**	2061	0,5	**100%**	98%	1,06
12	No.13	FM FC	1,00	0	1049	2,0	**103%**	1347	1,6	**91%**	2071	1,6	**100%**	98%	1,01
13	No. 83	FM 5000	1,03	1	1023	2,2	**100%**				2016	1,8	**98%**	66%	1,12
14	No.71/1	FM FC	1,00	0	1074	1,1	**105%**	1525	1,6	**103%**	2119	1,1	**103%**	103%	1,02
15	No.29	FM5000	1,00	0	998	2,2	**98%**	1503	1,6	**101%**	2050	1,8	**99%**	99%	1,02
16	No.143/I	FM DC	1,00	0	1031	1,0	**101%**	1482	0,8	**100%**	2032	1,1	**98%**	100%	0,98
17	No.97	FM 7	1,00	0	1011	1,0	**99%**	1483	1,0	**100%**	2075	0,9	**100%**	100%	1,04
18	No.167/I	FM FC	1,00		1032	1,1	**101%**	1524	0,6	**103%**	2015	0,5	**98%**	100%	0,95
19	No. 72	FM FC	1,00	0	1030	2,8	**101%**	1519	1,3	**102%**	2039	2,0	**99%**	101%	0,98
20	No. 152/5A	FM DC	1,00								2086	1,9	**101%**		
21	No. 152/2	FT +	1,00								2099	2,3	**102%**		
22	No. 152/4B	FM 7	1,00								2110	0,7	**102%**		
23	No. 39/1	FM5000	0,98	0	1078	1,4	**105%**	1568	1,1	**106%**	2125	1,9	**103%**	105%	1,02
24	No- 02/B	Bacsomatic	1,00	0	1125	1,1	**110%**	1581	2,8	**107%**	2094	0,7	**101%**	106%	0,94
25	No. 75/I	FM7 DC	1,00	0	1104	1,8	**108%**	"1160	1,4	**82%**	2124	1,0	**103%**	98%	1,00
26	No. 152/1	7 DC	1,00								2169	1,1	**105%**	35%	
27	No. 93/1	SCC-FC	1,00	1	1049	3,7	**103%**	1564	2,0	**105%**	2276	3,1	**110%**	106%	1,20
28	No. 40/1	FM minor			1175	3,4	**115%**	1590	3,3	**107%**				111%	0,97
Mean					1019		**97%**	1447		**96%**	**2042**		**101%**		
Median					**1023**			1483			**2066**				
ref./calc.value		**Goat milk**			**1050**	(970-1190)		1510	1372-1680)		**2020**	1917-2225)			
`r`VK %					2,0%			1,8%			1,7%				
s-R					**65**			**118**			**108**				
`R`VK%					6,4%			8,2%			**5,3%**				
Geo-Mean (Tolerance = +/- uncertainty of measu					**1017**	*888*	*1146*	1442	*1207*	*1678*	**2039**	*1824*	*2255*		
ref.value (+/-10%)					**1017**	*945*	*1155*	1510	*1359*	*1661*	**2020**	*1818*	*2222*		

*) difference to Median

SC: Somascope **BS: Bacsomatic**
SCC: Somacount **DCC: DeLaval**
FM7-DC: new generation from Foss

VK%`r`: repeatability (Standard deviation of repeatability/arithm.mean*100)
VK%`R`: reproducibility (Standard deviation of reproducibility/arithm.mean*100)
s-R : Standard deviation of reproducibility

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Mean					1019		**97%**	1447		**96%**	**2042**		**101%**		
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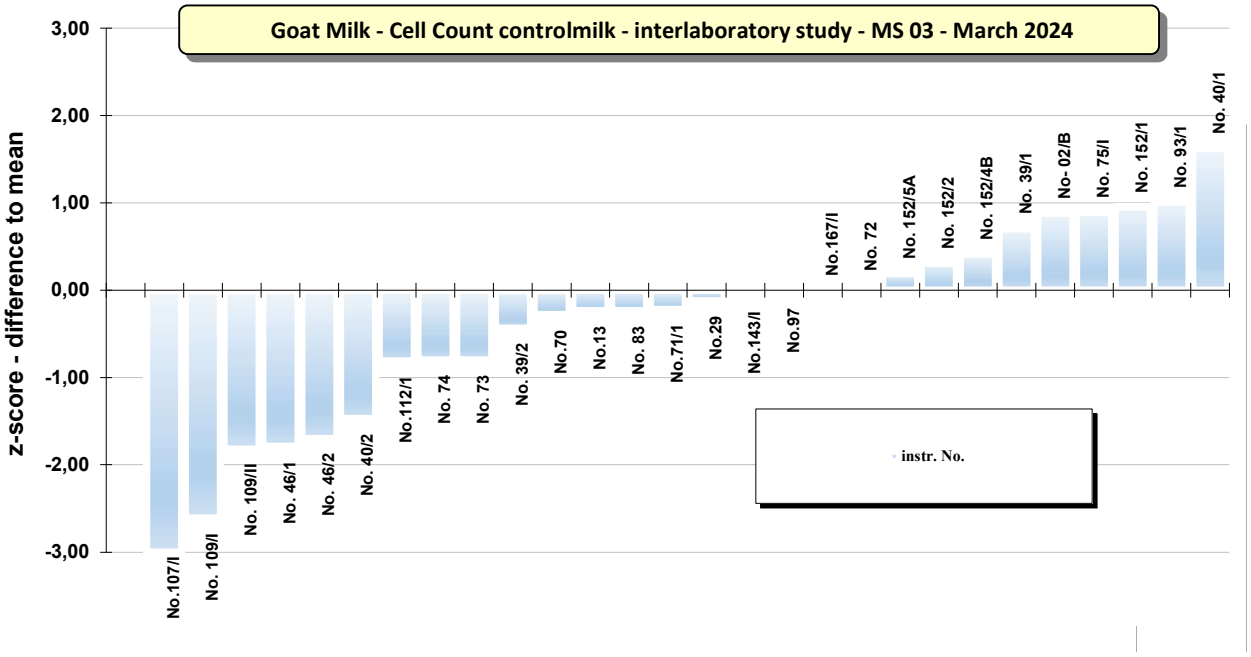
FM7-DC: new generation from Foss

VK%`r`: repeatability (Standard deviation of repeatability/arithm.mean*100)
VK%`R`: reproducibility (Standard deviation of reproducibility/arithm.mean*100)
s-R : Standard deviation of reproducibility



Z-score:
= Measure of the permissible deviation from individual results at the respective reference material

$|Z| = (C_{jk} - C_k) / s\text{-}R$
C_{jk} = obseved value
C_k = sample mean
s-R : Standard deviation of the whole data set

$|Z| \leq 0,5$ = very good testing/results
$|Z| \leq 1,0$ = good results
$|Z| \leq 2,0$ = satisfactory results
$|Z| > 2,0$ = disputable results