

## Enumeration of total bacterial count in raw milk - FC/BC interlaboratory studies October - MS 11

| instr. No. |           | Stain      |     | Enzym       |     | BZ       |     | BCS-Standard |        | LED Set-Point | Signal-width | Noise level | PMT level | MS10A |          |         | MS10B |          |         | MS11A |          |         | MS11B/C |          |         | Controlmilk CM I |          |        | Controlmilk CM II |          |        | Rel. 11A/11B | mean % calc |      |
|------------|-----------|------------|-----|-------------|-----|----------|-----|--------------|--------|---------------|--------------|-------------|-----------|-------|----------|---------|-------|----------|---------|-------|----------|---------|---------|----------|---------|------------------|----------|--------|-------------------|----------|--------|--------------|-------------|------|
|            |           | Batch-     | No. | Batch-      | No. | Batch-   | No. | % sign.      | % Imp. |               |              |             |           | Imp.  | VK%<br>r | % calc. | Imp.  | VK%<br>r | % calc. | Imp.  | VK%<br>r | % calc. | Imp.    | VK%<br>r | % calc. | Imp.             | VK%<br>r | % mean | Imp.              | VK%<br>r | % mean |              |             |      |
|            |           | Microsph   |     | Enzyme      |     | IBC-Std  |     |              |        |               |              |             |           |       |          |         |       |          |         |       |          |         |         |          |         |                  |          |        |                   |          |        |              |             |      |
| 1          | BS 02     | 2505096B   |     | 2505097B    |     | 601678   |     | 95%          | 108%   |               | 27           | 10          |           |       | 161      | 3,30    | 93%   | "423     | 4,50    | 87%   | 137      | 3,30    | 88%     | 384      | 3,30    | 87%              | 162      | 3,60   | 91%               | 305      | 2,3    | 97%          | 2,80        | 89%  |
| 2          | FC 166    | 24100238   |     | 25050113    |     | 60515038 |     | 92%          | 88%    | 489           | 26           | 9           | 610       |       | 160      | 3,52    | 92%   | "393     | 4,54    | 79%   | 145      | 7,80    | 94%     | 423      | 3,55    | 96%              | 169      | 2,22   | 95%               | 296      | 4,1    | 94%          | 2,91        | 90%  |
| 3          | FC 132    | 24110272   |     | 25010005    |     | 6016077  |     |              | 88%    |               | 26           | 5           |           |       |          |         |       |          |         |       | 137      | 2,9     | 89%     | 404      | 2,3     | 92%              | 150      | 4,9    | 84%               | 273      | 2,4    | 87%          | 2,94        | 90%  |
| 4          | FC 155-PT | 24110272   |     | 25010005    |     | 6015612  |     | 98%          | 103%   | 722           | 27           | 6           | 491       |       |          |         |       |          |         |       | 142      | 4,56    | 92%     | 397      | 3,58    | 90%              |          |        |                   |          |        | 2,80         | 91%         |      |
| 5          | BS 02-C   | 2505096B   |     | 2505097B    |     | 601678   |     | 95%          | 108%   |               | 27           | 10          |           |       |          |         |       | "870     | 3,20    | 92%   |          |         |         | "771     | 2,30    |                  |          |        |                   |          |        | 92%          |             |      |
| 6          | FC 155    | 24110272   |     | 25010005    |     | 6015612  |     | 98%          | 103%   | 722           | 27           | 6           | 491       |       | 149      | 3,97    | 86%   | 430      | 2,76    | 86%   | 148      | 5,22    | 95%     | 452      | 2,97    | 103%             | 159      | 5,82   | 89%               | 308      | 4,6    | 98%          | 3,05        | 93%  |
| 7          | BS 02 old | 2505096B   |     | 2505097B    |     | 601678   |     | 95%          | 110%   |               |              |             |           | "145  | 3,80     | 95%     | "388  | 3,00     | 86%     |       |          |         | "877    | 2,60     | 97%     |                  |          |        |                   |          |        | 93%          |             |      |
| 8          | FC 112/I  | 24100238   |     | 25070163    |     | 6016012  |     | 93%          | 90%    | 975           | 25           | 7           | 545       |       |          |         |       |          |         |       | 144      | 2,2     | 93%     | 412      | 3,0     | 94%              | 158      | 4,6    | 89%               | 296      | 3,9    | 94%          | 2,86        | 93%  |
| 9          | FC 101    |            |     |             |     |          |     |              |        |               |              |             |           |       |          |         |       |          |         |       | 145      | 5,5     | 94%     | "815     | 2,1     | 93%              | 169      | 2,6    | 95%               |          |        | 93%          |             |      |
| 10         | FC 1      | 24070150   |     | 25050117    |     | 6015612  |     | 98%          | 102%   | 846           | 26           | 8           | 580       |       | 159      | 4,49    | 91%   | 464      | 3,26    | 93%   | 146      | 4,01    | 94%     | 424      | 2,33    | 96%              | 164      | 3,17   | 92%               | 291      | 2,8    | 92%          | 2,90        | 94%  |
| 11         | FC 97     | 22100252   |     | 25010005    |     | 6015182  |     | 95%          | 86%    | 610           | 19           | 7           | 693       |       | 161      | 3,9     | 93%   | 465      | 2,2     | 93%   | 146      | 3,7     | 94%     | 421      | 3,3     | 96%              | 196      | 6,4    | 110%              | 328      | 3,6    | 104%         | 2,88        | 94%  |
| 12         | FC 103    |            |     |             |     |          |     |              |        |               |              |             |           |       |          |         |       |          |         |       | 143      | 3,0     | 92%     | "839     | 3,0     | 96%              | 164      | 5,3    | 92%               |          |        | 94%          |             |      |
| 13         | FC 37     | 24110272   |     | 25020020    |     | 6015612  |     | 95%          | 92%    |               |              |             |           |       | 161      | 5,3     | 93%   | 475      | 9,9     | 95%   | 144      | 4,3     | 93%     | 426      | 1,8     | 97%              | 175      | 2,2    | 98%               | 313      | 3,5    | 99%          | 2,96        | 94%  |
| 14         | FC 30     |            |     |             |     |          |     |              |        |               |              |             |           | "141  | 5,3      | 92%     | "421  | 2,2      | 93%     | 150   | 4,0      | 97%     | 433     | 1,4      | 98%     | 176              | 5,8      | 99%    | 309               | 5,1      | 98%    | 2,89         | 95%         |      |
| 15         | FC 36     | 24110272   |     | 25020020    |     | 6015612  |     | 90%          | 92%    |               |              |             |           | 152   | 5,7      | 87%     | 480   | 4,8      | 96%     | 154   | 3,5      | 99%     | 432     | 3,9      | 98%     | 188              | 3,8      | 105%   | 308               | 3,3      | 98%    | 2,80         | 95%         |      |
| 16         | FC 151    | 556688     |     | 556746      |     | 557058   |     | 110%         | 88%    | 890           | 29           | 6           | 515       |       | 173      | 4,21    | 99%   | 509      | 1,93    | 102%  | 146      | 3,58    | 94%     | 379      | 2,39    | 86%              | 160      | 3,93   | 90%               | 285      | 2,2    | 90%          | 2,60        | 95%  |
| 17         | FC 94     | 25020020   |     | 25020023    |     | 6015807  |     | 97%          | 94%    | 1061          | 27,3         | 7           | 575       |       | 159      | 3,50    | 91%   | 471      | 0,70    | 94%   | 152      | 3,80    | 98%     | 432      | 2,80    | 98%              | 173      | 4,60   | 97%               |          |        | 2,85         | 95%         |      |
| 18         | FC 17     | 24090220   |     | 25050113    |     | 6015119  |     | 100%         | 98%    | 950           | 27           | 6           | 520       |       | 166      | 2,73    | 95%   | 486      | 2,28    | 97%   | 148      | 2,40    | 95%     | 432      | 2,05    | 98%              | 178      | 3,49   | 100%              |          |        | 2,92         | 97%         |      |
| 19         | FC 98-PT  | 25020023   |     | 25010005    |     | 6016183  |     | 93%          | 105%   | 25            | 27           | 7           | 649       |       |          |         |       |          |         |       | 147      | 3,7     | 95%     | 433      | 6,4     | 99%              |          |        |                   |          |        | 2,95         | 97%         |      |
| 20         | FC 13     | 25020048   |     | 25050113    |     | 6016012  |     | 98%          | 95%    | 765           | 27           | 6           | 489       |       | 170      | 2,74    | 98%   | 476      | 3,53    | 95%   | 148      | 4,5     | 95%     | 435      | 2,9     | 99%              | 170      | 5,7    | 95%               | 308      | 2,4    | 98%          | 2,94        | 97%  |
| 21         | FC 131    | 25020020   |     | 25020023    |     | 6015807  |     | 97%          | 100%   | 783           | 27           | 9           | 582       |       | 157      | 4,60    | 90%   | 469      | 4,30    | 94%   | 156      | 4,20    | 101%    | 452      | 2,80    | 103%             | 181      | 4,60   | 102%              |          |        | 2,89         | 97%         |      |
| 22         | BS 147    | 2506132B   |     | 2506132B    |     | 6014094  |     | 93%          | 111%   |               | 28           | 11          |           |       |          |         |       |          |         |       | 149      | 2,3     | 96%     | 430      | 2,4     | 98%              |          |        |                   | 294      | 3,2    | 93%          | 2,89        | 97%  |
| 23         | BC 109/I  | 03724F-409 |     | 03771-2-378 |     | 0424A    |     |              |        |               |              |             |           |       | 205      | 4,80    | 96%   | 521      | 5,01    | 85%   | 197      | 3,96    | 103%    | 566      | 1,25    | 105%             | 245      | 2,49   | 105%              | 419      | 3,7    | 103%         | 2,87        | 97%  |
| 24         | BC 112/I  |            |     |             |     |          |     |              |        |               |              |             |           |       | 206      | 2,31    | 96%   | 599      | 1,19    | 98%   | 187      | 2,19    | 98%     | 528      | 1,63    | 98%              | 206      | 2,83   | 89%               | 375      | 1,5    | 93%          | 2,82        | 97%  |
| 25         | FC 96     | 25020020   |     | 25020023    |     | 6015807  |     | 108%         | 96%    | 689           | 28,7         | 6           | 549       |       | "152     | 4,40    | 88%   | 492      | 2,40    | 99%   | 161      | 4,80    | 104%    | 450      | 2,30    | 102%             | 189      | 3,90   | 106%              |          |        | 2,80         | 98%         |      |
| 26         | FC 149    | 25020048   |     | 25050117    |     | 6016077  |     | 122%         | 135%   | 510           | 20           | 6           | 709       |       | 170      | 2,6     | 98%   | 496      | 2,1     | 99%   | 151      | 4,6     | 97%     | 432      | 2,3     | 98%              | 165      | 3,9    | 92%               | 308      | 5,1    | 98%          | 2,86        | 98%  |
| 27         | FC 18     | 24090220   |     | 25050113    |     | 6014677  |     | 103%         | 112%   | 510           | 27           | 6           | 543       |       | 170      | 4,77    | 98%   | 487      | 2,68    | 98%   | 154      | 5,10    | 99%     | 441      | 2,74    | 100%             | 184      | 4,88   | 103%              | 317      | 3,5    | 101%         | 2,87        | 99%  |
| 28         | FC 19/II  | 25020048   |     | 25060146    |     | 6016012  |     | 98%          | 95%    | 660           | 26           | 7           | 551       |       | 170      | 5,80    | 98%   | 506      | 2,44    | 101%  | 152      | 1,90    | 98%     | 429      | 4,48    | 98%              | 195      | 3,53   | 109%              | 325      | 1,4    | 103%         | 2,82        | 99%  |
| 29         | FC 108    | 24090220   |     | 25010005    |     | 6015295  |     | 98%          | 91%    | 861           | 33           | 7           | 547       |       |          |         |       |          |         |       | 152      | 4,3     | 98%     | 439      | 2,9     | 100%             | 169      | 3,9    | 95%               | 302      | 3,4    | 96%          | 2,89        | 99%  |
| 30         | FC 32     | 241100238  |     | 25010005    |     | 6015433  |     | 100%         | 106%   | 744           | 27           | 10          | 646       |       | 165      | 5,7     | 95%   | 515      | 2,0     | 103%  | 143      | 5,9     | 92%     | 462      | 2,6     | 105%             | 187      | 3,3    | 105%              | 339      | 2,8    | 107%         | 3,23        | 99%  |
| 31         | FC 11     | 25020023   |     | 24100267    |     | 6015807  |     | 95%          | 129%   | 483           | 28           | 6           | 561       |       | 179      | 4,01    | 103%  | 499      | 1,88    | 100%  | 152      | 3,46    | 98%     | 417      | 2,45    | 95%              | 172      | 4,43   | 96%               | 300      | 2,8    | 95%          | 2,74        | 99%  |
| 32         | FC 85     | 24110272   |     | 24120297    |     | 6015512  |     | 97%          | 94%    | 1049          | 29           | 7           | 562       |       | 178      | 2,4     | 102%  | 505      | 2,8     | 101%  | 149      | 3,9     | 96%     | 423      | 1,4     | 96%              | 160      | 3,7    | 90%               | 298      | 1,3    | 94%          | 2,84        | 99%  |
| 33         | FC 38-II  | 25070179   |     | 25070163    |     | 6015807  |     | 100%         | 90%    | 780           | 26           | 6           | 529       |       | 169      | 3,6     | 97%   | 493      | 1,5     | 99%   | 155      | 3,2     | 100%    | 440      | 2,3     | 100%             | 183      | 4,0    | 103%              | 317      | 2,7    | 100%         | 2,84        | 99%  |
| 34         | FC 63     | 25020048   |     | 25020046    |     | 6016012  |     | 103%         | 100%   | 748           | 26           | 6           | 634       |       | 174      | 3,5     | 100%  | 494      | 0,8     | 99%   | 154      | 2,8     | 99%     | 441      | 0,4     | 100%             | 200      | 2,4    | 112%              | 348      | 2,3    | 110%         | 2,87        | 100% |
| 35         | FC 84     | 24110272   |     | 24120297    |     | 6015512  |     | 100%         | 96%    | 984           | 29           | 6           | 549       |       | 175      | 3,62    | 101%  | 500      | 6,92    | 100%  | 154      | 4,31    | 99%     | 436      | 2,65    | 99%              | 167      | 3,52   | 94%               | 303      | 2,2    | 96%          | 2,83        | 100% |
| 36         | FC 39     | 25020023   |     | 24110274    |     | 6016012  |     | 100%         | 100%   | 860           | 26           | 7           | 651       |       | 172      | 3,67    | 99%   | 498      | 2,17    | 100%  | 156      | 3,33    | 101%    | 441      | 5,10    | 100%             | 170      | 2,80   | 95%               | 305      | 4,2    | 97%          | 2,83        | 100% |
| 37         | FC 65     | 25020048   |     | 25020046    |     | 6016012  |     | 115%         | 101%   | 515           | 33           | 11          | 588       |       | 175      | 2,3     | 100%  | 496      | 2,1     | 99%   | 154      | 1,9     | 99%     | 443      | 1,5     | 101%             | 204      | 2,0    | 114%              | 350      | 2,5    | 111%         | 2,88        | 100% |

| instr. No.                                                                          | Stain     |            | Enzym       |         | BZ      |      | BCS-Standard |        | LED Set-Po | Signal-width | Noise level | PMT level | MS10A |      |         | MS10B |      |             | MS11A |        |          | MS11B/C |      |            | Controlmilk CM I |      |        | Controlmilk CM II |      |        | Rel.     | mean % calc |
|-------------------------------------------------------------------------------------|-----------|------------|-------------|---------|---------|------|--------------|--------|------------|--------------|-------------|-----------|-------|------|---------|-------|------|-------------|-------|--------|----------|---------|------|------------|------------------|------|--------|-------------------|------|--------|----------|-------------|
|                                                                                     | Batch-    | No.        | Batch-      | No.     | Batch-  | No.  | % sign.      | % Imp. |            |              |             |           | Imp.  | VK%  | % calc. | Imp.  | VK%  | % calc.     | Imp.  | VK%    | % calc.  | Imp.    | VK%  | % calc.    | Imp.             | vk%  | % mean | Imp.              | vk%  | % mean | 11A/ 11B |             |
|                                                                                     | Microsph  |            | Enzyme      |         | IBC-Std |      |              |        |            |              |             |           |       |      |         |       |      |             |       |        |          |         |      |            |                  |      |        |                   |      |        |          |             |
| 38                                                                                  | FC 112/I  | 24100238   | 25070163    | 6016012 | 100%    | 97%  | 621          | 24     | 7          | 603          |             |           |       |      |         |       | 156  | 4,0         | 101%  | 436    | 3,8      | 99%     | 192  | 5,0        | 108%             | 304  | 5,0    | 96%               | 2,79 | 100%   |          |             |
| 39                                                                                  | FC 90     | 23090191   | 24060137    | 6013067 | 100%    | 97%  | 713          | 29     | 9          | 646          | 172         | 5,17      | 99%   | 507  | 2,67    | 102%  | 153  | 6,73        | 99%   | 444    | 2,37     | 101%    | 180  | 4,11       | 101%             | 305  | 3,4    | 97%               | 2,89 | 100%   |          |             |
| 40                                                                                  | FC 39B    | 25020023   | 24110274    | 6016012 | 100%    | 100% | 860          | 26     | 7          | 651          |             |           |       |      |         |       |      |             |       | "871,7 | 4,5      | 100%    |      |            |                  |      |        |                   |      | 100%   |          |             |
| 41                                                                                  | FC 95B    | 25020023   | 24110274    | 6016012 | 95%     | 99%  | 758          | 27     | 6          | 553          |             |           |       |      |         |       |      |             |       | "871,6 | 3,0      | 100%    |      |            |                  |      |        |                   |      | 100%   |          |             |
| 42                                                                                  | FC 120    | 24060137   | 24060137    | 6015612 | 100%    | 98%  | 894          | 31     | 12         | 940          | 168         | 5,7       | 97%   | 486  | 4,2     | 97%   | 157  | 6,5         | 101%  | 463    | 5,1      | 105%    | 181  | 3,3        | 101%             | 332  | 6,4    | 105%              | 2,95 | 100%   |          |             |
| 43                                                                                  | FC 8      | 24100238   | 24110274    | 6015300 | 97%     | 105% | 750          | 25     | 5          | 553          | 170         | 5,59      | 97%   | 504  | 3,41    | 101%  | 159  | 4,78        | 102%  | 441    | 2,82     | 100%    | 191  | 4,05       | 107%             | 333  | 3,1    | 106%              | 2,78 | 100%   |          |             |
| 44                                                                                  | FC 38-I   | 25070179   | 25070163    | 6015807 | 100%    | 95%  | 575          | 26     | 5          | 522          | 172         | 2,6       | 99%   | 501  | 2,8     | 100%  | 155  | 2,3         | 100%  | 454    | 1,5      | 103%    | 178  | 4,3        | 100%             | 327  | 1,4    | 104%              | 2,93 | 101%   |          |             |
| 45                                                                                  | FC 107    | 24110272   | 25050117    | 6014981 | 111%    | 102% |              | 28     | 7          | 575          | 176         | 3,3       | 101%  | 500  | 1,0     | 100%  | 155  | 3,4         | 100%  | 447    | 2,0      | 102%    | 188  | 3,2        | 105%             | 331  | 2,2    | 105%              | 2,88 | 101%   |          |             |
| 46                                                                                  | FC 74     | 25020023   | 25010005    | 6016077 | 100%    | 100% | 855          | 28     | 6          | 550          | 181         | 3,5       | 104%  | 508  | 2,1     | 102%  | 151  | 4,6         | 97%   | 448    | 2,7      | 102%    | 173  | 3,8        | 97%              | 316  | 2,7    | 100%              | 2,97 | 101%   |          |             |
| 47                                                                                  | FC 136    | 24010011   | 24050108    | 6015577 | 100%    | 100% | 663          | 26     | 7          | 545          | 175         | 4,0       | 101%  | 500  | 6,0     | 100%  | 158  | 3,6         | 102%  | 450    | 2,7      | 102%    | 194  | 4,4        | 108%             | 331  | 4,0    | 105%              | 2,84 | 101%   |          |             |
| 48                                                                                  | FC 95     | 25020023   | 24110274    | 6016012 | 95%     | 99%  | 758          | 27     | 6          | 553          | 175         | 4,06      | 101%  | 498  | 2,65    | 100%  | 160  | 5,11        | 103%  | 451    | 3,32     | 102%    | 160  | 3,59       | 89%              | 298  | 1,6    | 94%               | 2,82 | 101%   |          |             |
| 49                                                                                  | FC 19/I   | 25020048   | 25060146    | 6016012 | 98%     | 94%  | 790          | 28     | 8          | 626          | 172         | 6,13      | 99%   | 539  | 1,87    | 108%  | 150  | 3,66        | 97%   | 451    | 2,28     | 102%    | 196  | 4,91       | 110%             | 319  | 3,1    | 101%              | 3,00 | 102%   |          |             |
| 50                                                                                  | BC 109/II | 03724F-409 | 03771-2-378 | 0424A   | 0%      | 0%   |              |        |            |              | 213         | 3,90      | 100%  | 554  | 1,96    | 90%   | 211  | 2,74        | 111%  | 574    | 1,80     | 106%    | 247  | 1,58       | 106%             | 421  | 1,7    | 104%              | 2,72 | 102%   |          |             |
| 51                                                                                  | FC 98     | 25020023   | 25010005    | 6016183 | 93%     | 105% | 25           | 27     | 7          | 649          |             |           |       |      |         |       | 157  | 6,6         | 101%  | 453    | 2,5      | 103%    | 173  | 2,8        | 97%              | 306  | 2,8    | 97%               | 2,89 | 102%   |          |             |
| 52                                                                                  | FC 83-PT  | 24090220   | 24120297    | 6015300 | 97%     | 99%  | 880          | 26     | 8          | 559          |             |           |       |      |         |       | 157  | 3,4         | 101%  | 458    | 2,0      | 104%    | 168  | 4,6        | 94%              | 296  | 2,7    | 94%               | 2,92 | 103%   |          |             |
| 53                                                                                  | FC 70     | 24110272   | 25010005    | 6015433 | 103%    | 97%  | 619          | 25     | 6          | 548          |             |           |       |      |         |       | 159  | 5,4         | 103%  | 468    | 2,6      | 106%    | 193  | 5,0        | 108%             | 336  | 3,8    | 107%              | 2,94 | 104%   |          |             |
| 54                                                                                  | FC 158    |            |             |         |         |      |              |        |            |              | "194        | 0,7       | 111%  | 522  | 0,9     | 105%  | 158  | 2,7         | 102%  | 461    | 0,9      | 105%    | 192  | 1,4        | 108%             | 331  | 1,0    | 105%              | 2,92 | 106%   |          |             |
| 55                                                                                  | FC 21     | 25020048   | 24120297    | 6016012 | 95%     | 97%  | 815          | 25     | 8          | 651          | 175         | 3,10      | 101%  | 527  | 1,10    | 106%  | 173  | 3,40        | 111%  | 472    | 1,80     | 107%    | 196  | 6,30       | 110%             | 342  | 1,1    | 108%              | 2,73 | 106%   |          |             |
| 56                                                                                  | FC 73     | 24110272   | 24100297    | 6015038 | 103%    | 85%  | 712          | 26     | 7          | 587          | 186         | 4,3       | 107%  | 528  | 3,9     | 106%  | 160  | 2,3         | 103%  | 479    | 2,6      | 109%    | 199  | 2,3        | 112%             | 364  | 3,6    | 115%              | 2,99 | 106%   |          |             |
| 57                                                                                  | FC 102    |            |             |         |         |      |              |        |            |              |             |           |       |      |         |       | 165  | 3,9         | 106%  | "932   | 1,8      | 107%    | 205  | 4,7        | 115%             |      |        |                   |      | 107%   |          |             |
| 58                                                                                  | FC 72     | 24070150   | 25010005    | 6015612 | 105%    | 101% | 751          | 29     | 7          | 528          | 193         | 2,6       | 111%  | 538  | 3,4     | 108%  | 173  | 4,0         | 112%  | 480    | 2,9      | 109%    | "238 | 2,7        | 132%             | "398 | 3,8    | 124%              | 2,77 | 110%   |          |             |
| 59                                                                                  | FC 115    | 556688     | 556746      | 557058  | 110%    | 98%  | 894          | 26     | 6          | 512          | "202        | 5,8       | 116%  | "575 | 2,6     | 115%  | 171  | 3,7         | 110%  | 440    | 2,1      | 100%    | 188  | 4,0        | 105%             | 345  | 2,4    | 109%              | 2,57 | 110%   |          |             |
| 60                                                                                  | FC 68     | 23090191   | 24100256    | 6013067 |         | 135% |              |        |            |              | "211        | 6,97      | 121%  | "611 | 12,05   | 122%  | 176  | 4,12        | 114%  | 493    | 5,23     | 112%    | "206 | 2,51       | 115%             | "378 | 4,6    | 119%              | 2,80 | 117%   |          |             |
| 61                                                                                  | BS 171    | 25070156   | 25070157    | 6015149 | 92%     | 102% |              |        |            |              |             |           |       |      |         |       |      |             |       | 144    | 8,3      | 81%     | 259  | 5,2        | 82%              |      |        |                   |      |        |          |             |
| 62                                                                                  | FC 39-PT  | 25020023   | 24110274    | 6016012 | 100%    | 100% | 860          | 26     | 7          | 651          |             |           |       |      |         |       |      |             |       | "148   | 4,28     | 82%     | "420 | 2,3        | 130%             |      |        |                   |      |        |          |             |
| 63                                                                                  | FC 41     | 25060128   | 25040085    | 6016183 | 100%    | 88%  | 711          | 31     | 10         | 633          |             |           |       |      |         |       |      |             |       | 188    | 3,50     | 105%    | 321  | 2,7        | 102%             |      |        |                   |      |        |          |             |
| 64                                                                                  | FC 42     | 25060128   | 25040085    | 6016183 | 95%     | 100% | 780          | 28     | 7          | 587          |             |           |       |      |         |       |      |             |       | "214   | 1,70     | 119%    | 348  | 2,6        | 110%             |      |        |                   |      |        |          |             |
| 65                                                                                  | FC 43     | 25060128   | 25040085    | 6016183 | 100%    | 95%  | 725          | 30     | 11         | 743          |             |           |       |      |         |       |      |             |       | 183    | 2,70     | 103%    | 334  | 1,9        | 106%             |      |        |                   |      |        |          |             |
| 66                                                                                  | FC 44     | 25060128   | 25040085    | 6016183 | 95%     | 96%  | 744          | 26     | 6          | 637          |             |           |       |      |         |       |      |             |       | 191    | 3,60     | 107%    | 354  | 3,6        | 112%             |      |        |                   |      |        |          |             |
| 67                                                                                  | FC 95-PT  | 25020023   | 24110274    | 6016012 | 95%     | 99%  | 758          | 27     | 6          | 553          |             |           |       |      |         |       |      |             |       | "143   | 2,75     | 80%     | "411 | 2,8        | 127%             |      |        |                   |      |        |          |             |
| Mean                                                                                | BSC-FC    |            |             |         |         |      | 774          | 28     | 7          | 584          | 170         |           | 98%   | 495  |         | 99%   | 153  |             | 99%   | 439    |          | 100%    | 179  |            | 100%             | 315  |        | 102%              | 2,87 | 99%    |          |             |
| Median                                                                              |           |            |             |         |         |      |              |        |            |              | 170         |           |       | 496  |         |       | 153  |             |       | 440    |          |         | 178  |            |                  | 313  |        |                   |      |        |          |             |
| VK(%)'r'                                                                            |           |            |             |         |         |      |              |        |            |              | 4,1%        |           |       | 3,1% |         |       | 4,1% |             |       | 2,8%   |          |         | 3,8% |            |                  | 3,1% |        |                   |      |        |          |             |
| s-R                                                                                 |           |            |             |         |         |      |              |        |            |              | 9,2         |           |       | 21,1 |         |       | 8,1  |             |       | 21,2   |          |         | 13,9 |            |                  | 20,9 |        |                   |      |        |          |             |
| VK(%)'R'                                                                            |           |            |             |         |         |      |              |        |            |              | 5,4%        |           |       | 4,3% |         |       | 5,3% |             |       | 4,8%   |          |         | 7,8% |            |                  | 6,6% |        |                   |      |        |          |             |
| mean                                                                                | BC -      |            |             |         |         |      |              |        |            |              | 208         |           | 97%   | 558  |         | 91%   | 198  |             | 104%  | 556    |          | 103%    | 233  |            |                  | 405  |        |                   | 2,80 |        |          |             |
| VK(%)'r'                                                                            |           |            |             |         |         |      |              |        |            |              | 3,7%        |           |       | 2,7% |         |       | 3,0% |             |       | 1,6%   |          |         | 2,3% |            |                  | 2,3% |        |                   |      |        |          |             |
| VK(%)'R'                                                                            |           |            |             |         |         |      |              |        |            |              | 2,1%        |           |       | 7,0% |         |       | 6,1% |             |       | 4,4%   |          |         | 9,9% |            |                  | 6,4% |        |                   |      |        |          |             |
| VK(%)'r' : Repeatability (Standard deviation of repeatability/arithm mean *100)     |           |            |             |         |         |      |              |        |            |              |             |           |       |      |         |       |      | calc.values |       |        | FC-imp   |         |      | BC-IBC     |                  |      |        |                   |      |        |          |             |
| s-R : Standard deviation of reproducibility                                         |           |            |             |         |         |      |              |        |            |              |             |           |       |      |         |       |      | MS10A       |       |        | 174 ±10% |         |      | 214 +/-15% |                  |      |        |                   |      |        |          |             |
| VK(%)'R' : Reproducibility (Standard deviation of reproducibility/arithm. mean*100) |           |            |             |         |         |      |              |        |            |              |             |           |       |      |         |       |      | Rel.10B/10A |       |        | 2,87 436 |         |      | 2,87 614   |                  |      |        |                   |      |        |          |             |
| KM (CM) : "Controlmilk" (Raw milk; enriched with definite Bacteria cultures)        |           |            |             |         |         |      |              |        |            |              |             |           |       |      |         |       |      | MS10C       |       |        | 943 ±10% |         |      |            |                  |      |        |                   |      |        |          |             |
| % signal = deviation to the BCS - Signal Mean Average                               |           |            |             |         |         |      |              |        |            |              |             |           |       |      |         |       |      | MS11A       |       |        | 170 ±10% |         |      | 191 +/-15% |                  |      |        |                   |      |        |          |             |
| % imp. = deviation to the BCS - Standard count average                              |           |            |             |         |         |      |              |        |            |              |             |           |       |      |         |       |      | Rel.11B/11A |       |        | 2,84 440 |         |      | 2,84 541   |                  |      |        |                   |      |        |          |             |
|                                                                                     |           |            |             |         |         |      |              |        |            |              |             |           |       |      |         |       |      | MS11C       |       |        | 875 ±10% |         |      | 1.076      |                  |      |        |                   |      |        |          |             |

| instr. No.        | Stain Enzym BZ |        |         | BCS-Standard |        | LED Set-Po | Signal-width | Noise level | PMT level | MS10A |         |        | MS10B |       |         | MS11A |       |         | MS11B/C |       |         | Controlmilk CM I |       |         | Controlmilk CM II |       |        | Rel. | mean % calc |
|-------------------|----------------|--------|---------|--------------|--------|------------|--------------|-------------|-----------|-------|---------|--------|-------|-------|---------|-------|-------|---------|---------|-------|---------|------------------|-------|---------|-------------------|-------|--------|------|-------------|
|                   | Batch-         | No.    | Batch-  | No.          | Batch- |            |              |             |           | No.   | % sign. | % Imp. | Imp.  | VK%`r | % calc. | Imp.  | VK%`r | % calc. | Imp.    | VK%`r | % calc. | Imp.             | VK%`r | % calc. | Imp.              | vk%`r | % mean |      |             |
|                   | Microsph       | Enzyme | IBC-Std |              |        |            |              |             |           |       |         |        |       |       |         |       |       |         |         |       |         |                  |       |         |                   |       |        |      |             |
| Staining solution | 2505096B       | n =    | 3       | 95%          | 108%   |            | 27           | 10          |           | 161   |         | 94%    |       |       | 88%     | 137   |       | 88%     | 384     |       | 92%     | 162              |       | 91%     | 305               |       | 97%    | 2,80 | 91%         |
| Staining solution | 24100238       | n =    | 4       | 96%          | 95%    | 709        | 25           | 7           | 578       | 165   |         | 95%    | 504   |       | 90%     | 151   |       | 97%     | 428     |       | 97%     | 177              |       | 99%     | 307               |       | 97%    | 2,83 | 96%         |
| Staining solution | 24110272       | n =    | 10      | 99%          | 95%    | 801        | 27           | 6           | 543       | 168   |         | 97%    | 488   |       | 98%     | 150   |       | 97%     | 436     |       | 99%     | 175              |       | 98%     | 315               |       | 100%   | 2,90 | 97%         |
| Staining solution | 24070150       | n =    | 2       | 101%         | 101%   | 799        | 28           | 8           | 554       | 176   |         | 101%   | 501   |       | 100%    | 160   |       | 103%    | 452     |       | 103%    | 164              |       | 112%    | 291               |       | 108%   | 2,84 | 102%        |
| Staining solution | 22100252       | n =    | 1       | 95%          | 86%    | 610        | 19           | 7           | 693       | 161   |         | 93%    | 465   |       | 93%     | 146   |       | 94%     | 421     |       | 96%     | 196              |       | 110%    | 328               |       | 104%   | 2,88 | 94%         |
| Staining solution | 556688         | n =    | 2       | 110%         | 93%    | 892        | 28           | 6           | 514       | 173   |         | 108%   | 509   |       | 109%    | 158   |       | 102%    | 409     |       | 93%     | 174              |       | 97%     | 315               |       | 100%   | 2,59 | 103%        |
| Staining solution | 25020020       | n =    | 3       | 101%         | 97%    | 844        | 28           | 7           | 569       | 158   |         | 90%    | 477   |       | 96%     | 156   |       | 101%    | 445     |       | 101%    | 181              |       | 101%    |                   |       |        | 2,85 | 97%         |
| Staining solution | 24090220       | n =    | 4       | 99%          | 100%   | 800        | 28           | 7           | 542       | 168   |         | 97%    | 486   |       | 97%     | 153   |       | 98%     | 442     |       | 101%    | 175              |       | 98%     | 305               |       | 97%    | 2,90 | 99%         |
| Staining solution | 25020023       | n =    | 10      | 97%          | 104%   | 624        | 27           | 7           | 602       | 177   |         | 102%   | 501   |       | 100%    | 154   |       | 99%     | 440     |       | 100%    | 169              |       | 91%     | 305               |       | 106%   | 2,87 | 100%        |
| Staining solution | 25020048       | n =    | 7       | 104%         | 103%   | 686        | 26           | 7           | 607       | 172   |         | 99%    | 505   |       | 101%    | 154   |       | 100%    | 443     |       | 101%    | 189              |       | 106%    | 329               |       | 104%   | 2,87 | 100%        |
| Staining solution | 2506132B       | n =    | 1       | 93%          | 111%   |            | 28           | 11          |           |       |         |        |       |       |         | 149   |       | 96%     | 430     |       | 98%     |                  |       |         | 294               |       | 93%    | 2,89 | 97%         |
| Staining solution | 03724F-409     | n =    | 2       | 0%           | 0%     |            |              |             |           | 209   |         | 98%    | 538   |       | 88%     | 204   |       | 107%    | 570     |       | 105%    | 246              |       | 106%    | 420               |       | 104%   | 2,80 | 99%         |
| Staining solution | 241100238      | n =    | 1       | 100%         | 106%   | 744        | 27           | 10          | 646       | 165   |         | 95%    | 515   |       | 103%    | 143   |       | 92%     | 462     |       | 105%    | 187              |       | 105%    | 339               |       | 107%   | 3,23 | 99%         |
| Staining solution | 25070179       | n =    | 2       | 100%         | 92%    | 678        | 26           | 6           | 526       | 171   |         | 98%    | 497   |       | 100%    | 155   |       | 100%    | 447     |       | 102%    | 181              |       | 101%    | 322               |       | 102%   | 2,88 | 100%        |
| Staining solution | 23090191       | n =    | 2       | 100%         | 116%   | 713        | 29           | 9           | 646       | 172   |         | 110%   | 507   |       | 112%    | 165   |       | 106%    | 468     |       | 106%    | 180              |       | 108%    | 305               |       | 108%   | 2,85 | 109%        |
| Staining solution | 24060137       | n =    | 1       | 100%         | 98%    | 894        | 31           | 12          | 940       | 168   |         | 97%    | 486   |       | 97%     | 157   |       | 101%    | 463     |       | 105%    | 181              |       | 101%    | 332               |       | 105%   | 2,95 | 100%        |
| Staining solution | 24010011       | n =    | 1       | 100%         | 100%   | 663        | 26           | 7           | 545       | 175   |         | 101%   | 500   |       | 100%    | 158   |       | 102%    | 450     |       | 102%    | 194              |       | 108%    | 331               |       | 105%   | 2,84 | 101%        |
| Staining solution | 25070156       | n =    | 1       | 92%          | 102%   |            |              |             |           |       |         |        |       |       |         |       |       |         |         |       |         | 144              |       | 81%     | 259               |       | 82%    |      |             |
| Staining solution | 25060128       | n =    | 4       | 98%          | 95%    | 740        | 29           | 9           | 650       |       |         |        |       |       |         |       |       |         |         |       |         | 187              |       | 108%    | 339               |       | 108%   |      |             |
| Enzym-Charge      | 2505097B       | n =    | 3       | 95%          | 108%   |            | 27           | 10          |           | 161   |         | 94%    |       |       | 88%     | 137   |       | 88%     | 384     |       | 92%     | 162              |       | 91%     | 305               |       | 97%    | 2,80 | 91%         |
| Enzym-Charge      | 25050113       | n =    | 4       | 98%          | 98%    | 679        | 27           | 7           | 541       | 167   |         | 96%    | 483   |       | 92%     | 149   |       | 96%     | 433     |       | 98%     | 175              |       | 98%     | 307               |       | 97%    | 2,91 | 96%         |
| Enzym-Charge      | 25010005       | n =    | 11      | 98%          | 99%    | 593        | 27           | 7           | 579       | 170   |         | 98%    | 491   |       | 98%     | 150   |       | 97%     | 442     |       | 100%    | 175              |       | 102%    | 314               |       | 102%   | 2,94 | 98%         |
| Enzym-Charge      | 25070163       | n =    | 4       | 98%          | 93%    | 738        | 25           | 6           | 550       | 171   |         | 98%    | 497   |       | 100%    | 153   |       | 98%     | 436     |       | 99%     | 178              |       | 100%    | 311               |       | 99%    | 2,86 | 98%         |
| Enzym-Charge      | 25050117       | n =    | 3       | 110%         | 113%   | 678        | 25           | 7           | 621       | 168   |         | 97%    | 487   |       | 98%     | 151   |       | 97%     | 434     |       | 99%     | 172              |       | 96%     | 310               |       | 98%    | 2,88 | 98%         |
| Enzym-Charge      | 25020020       | n =    | 2       | 93%          | 92%    |            |              |             |           | 156   |         | 90%    | 478   |       | 96%     | 149   |       | 96%     | 429     |       | 98%     | 182              |       | 102%    | 311               |       | 99%    | 2,88 | 95%         |
| Enzym-Charge      | 556746         | n =    | 2       | 110%         | 93%    | 892        | 28           | 6           | 514       | 173   |         | 108%   | 509   |       | 109%    | 158   |       | 102%    | 409     |       | 93%     | 174              |       | 97%     | 315               |       | 100%   | 2,59 | 103%        |
|                   | 25020023       |        |         |              |        |            |              |             |           |       |         |        |       |       |         |       |       |         |         |       |         |                  |       |         |                   |       |        |      |             |
|                   | 2506132B       |        |         |              |        |            |              |             |           |       |         |        |       |       |         |       |       |         |         |       |         |                  |       |         |                   |       |        |      |             |
| Enzym-Charge      | 03771-2-378    | n =    | 2       | 0%           | 0%     |            |              |             |           | 209   |         | 98%    | 538   |       | 88%     | 204   |       | 107%    | 570     |       | 105%    | 246              |       | 106%    | 420               |       | 104%   | 2,80 | 99%         |
| Enzym-Charge      | 25060146       | n =    | 2       | 98%          | 95%    | 725        | 27           | 8           | 589       | 171   |         | 98%    | 523   |       | 105%    | 151   |       | 97%     | 440     |       | 100%    | 195              |       | 109%    | 322               |       | 102%   | 2,91 | 100%        |
| Enzym-Charge      | 24100267       | n =    | 1       | 95%          | 129%   | 483        | 28           | 6           | 561       | 179   |         | 103%   | 499   |       | 100%    | 152   |       | 98%     | 417     |       | 95%     | 172              |       | 96%     | 300               |       | 95%    | 2,74 | 99%         |
| Enzym-Charge      | 24120297       | n =    | 4       | 97%          | 97%    | 932        | 27           | 7           | 580       | 176   |         | 101%   | 511   |       | 102%    | 158   |       | 102%    | 447     |       | 102%    | 173              |       | 97%     | 310               |       | 98%    | 2,83 | 102%        |
| Enzym-Charge      | 25020046       | n =    | 2       | 109%         | 100%   | 632        | 30           | 9           | 611       | 174   |         | 100%   | 495   |       | 99%     | 154   |       | 99%     | 442     |       | 100%    | 202              |       | 113%    | 349               |       | 111%   | 2,87 | 100%        |
| Enzym-Charge      | 24110274       | n =    | 7       | 97%          | 101%   | 801        | 26           | 6           | 595       | 172   |         | 99%    | 500   |       | 100%    | 158   |       | 102%    | 444     |       | 101%    | 173              |       | 91%     | 312               |       | 111%   | 2,81 | 100%        |
| Enzym-Charge      | 24060137       | n =    | 2       | 100%         | 97%    | 804        | 30           | 11          | 793       | 170   |         | 98%    | 496   |       | 99%     | 155   |       | 100%    | 453     |       | 103%    | 180              |       | 101%    | 319               |       | 101%   | 2,92 | 100%        |
| Enzym-Charge      | 24050108       | n =    | 1       | 100%         | 100%   | 663        | 26           | 7           | 545       | 175   |         | 101%   | 500   |       | 100%    | 158   |       | 102%    | 450     |       | 102%    | 194              |       | 108%    | 331               |       | 105%   | 2,84 | 101%        |
| Enzym-Charge      | 24100297       | n =    | 1       | 103%         | 85%    | 712        | 26           | 7           | 587       | 186   |         | 107%   | 528   |       | 106%    | 160   |       | 103%    | 479     |       | 109%    | 199              |       | 112%    | 364               |       | 115%   | 2,99 | 106%        |
| Enzym-Charge      | 24100256       | n =    | 1       |              | 135%   |            |              |             |           |       |         | 121%   |       |       | 122%    | 176   |       | 114%    | 493     |       | 112%    |                  |       | 115%    |                   | 119%  | 2,80   | 117% |             |
| Enzym-Charge      | 25070157       | n =    | 1       | 92%          | 102%   |            |              |             |           |       |         |        |       |       |         |       |       |         |         |       |         | 144              |       | 81%     | 259               |       | 82%    |      |             |
| BZ-Charge         | 601678         | n =    | 3       | 95%          | 108%   |            | 27           | 10          |           | 161   |         | 94%    |       |       | 88%     | 137   |       | 88%     | 384     |       | 92%     | 162              |       | 91%     | 305               |       | 97%    | 2,80 | 91%         |
| BZ-Charge         | 60515038       | n =    | 1       | 92%          | 88%    | 489        | 26           | 9           | 610       | 160   |         | 92%    |       |       | 79%     | 145   |       | 94%     | 423     |       | 96%     | 169              |       | 95%     | 296               |       | 94%    | 2,91 | 90%         |
| BZ-Charge         | 6016077        | n =    | 3       | 111%         | 108%   | 683        | 25           | 6           | 630       | 176   |         | 101%   | 502   |       | 101%    | 146   |       | 94%     | 428     |       | 97%     | 163              |       | 91%     | 299               |       | 95%    | 2,92 | 97%         |
| BZ-Charge         | 6015612        | n =    | 7       | 98%          | 99%    | 787        | 28           | 8           | 606       | 164   |         | 94%    | 479   |       | 96%     | 152   |       | 98%     | 439     |       | 100%    | 174              |       | 103%    | 311               |       | 103%   | 2,89 | 97%         |
| BZ-Charge         | 6016012        | n =    | 14      | 99%          | 98%    | 767        | 27           | 7           | 593       | 173   |         | 99%    | 504   |       | 101%    | 155   |       | 100%    | 441     |       | 100%    | 184              |       | 99%     | 320               |       | 106%   | 2,86 | 100%        |
| BZ-Charge         | 6015182        | n =    | 1       | 95%          | 86%    | 610        | 19           | 7           | 693       | 161   |         | 93%    | 465   |       | 93%     | 146   |       | 94%     | 421     |       | 96%     | 196              |       | 110%    | 328               |       | 104%   | 2,88 | 94%         |
| BZ-Charge         | 557058         | n =    | 2       | 110%         | 93%    | 892        | 28           | 6           | 51        |       |         |        |       |       |         |       |       |         |         |       |         |                  |       |         |                   |       |        |      |             |