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At the kind attention to manager's laboratory

REFERENCE MATERIAL FOR COW MILK

SENT ON 19/08/2008

N.	FAT g/100g	SR*	TOTAL NITROGEN CONTENT g/100g	SR*	LACTOSE g/100g	SR*	CASEIN g/100g	SR*	UREA mg/100 ml
1	2,51	0,037	3,34	0,027	4,81	0,022	2,59	0,024	36,20
2	3,95	0,035	3,41	0,028	4,79	0,016	2,61	0,024	31,61
3	3,50	0,037	3,34	0,020	4,87	0,018	2,61	0,032	24,22
4	2,83	0,019	3,42	0,023	4,84	0,017	2,70	0,024	37,96
5	4,27	0,037	3,37	0,013	4,79	0,015	2,66	0,037	32,11

- The batch homogeneity was verified evaluating the fat content with infrared instrument according FIL/IDF 141 C: 2000. on 85 samples, about 10% of the samples produced the between standard deviation is always less than 0,01g/100g, (ISO/FDIS 13528 STATISTICAL METHODS FOR USE IN PROFICIENCY TESTING BY INTERLABORATORY COMPARISONS).
- The target values for fat, total nitrogen content and lactose were obtained with the statistical elaboration of the specific proficiency test with 15 participants with 20 instruments. Our laboratory executed the reference method: for fat FIL/IDF 1D:1996, for total nitrogen content ISO 8968-2 IDF 20-2 2001 and for lactose differential pH.
- The target values for casein were obtained with the statistical elaboration of the specific proficiency test with 12 participants with 16 instruments. Our laboratory executed the reference method ISO 17997-1 IDF 29-1 2004 or ISO 17997-2 IDF 29-2 2004.
- The target values for urea were obtained with reference method ISO 14637 IDF 195 2004.
- * The standard deviation of reproducibility (SR) was obtained from the proficiency test elaborated according ISO 5725-2. SR can be considered the uncertainty (U) of each reference material according ISO /TS 21748.
- The mean uncertainty for all 10 samples is : $SR_{(FAT)} = 0,034$ g/100g $SR_{(PROTEIN)} = 0,023$ g/100g $SR_{(LACTOSE)} = 0,018$ g/100g $SR_{(CASEIN)} = 0,029$ g/100g

MACCARESE, 21/08/2008

Il Responsabile del Laboratorio
(Dr.ssa Annunziata Fontana)