

DIN EN ISO 21187:2021-06 (E)

Milk - Quantitative determination of microbiological quality - Guidance for establishing and verifying a conversion relationship between results of an alternative method and anchor method results (ISO 21187:2021)

Contents		Page
	European foreword	4
	Foreword	5
	Introduction	7
1	Scope	8
2	Normative references	8
3	Terms and definitions	8
4	Principles	9
4.1	General	9
4.2	Guidance for applied methods and laboratories	9
4.3	Organizational set-up	10
5	Consideration of factors influencing the conversion relationship	10
5.1	General	10
5.2	Environmental factors	10
5.2.1	General	10
5.2.2	Animal species	11
5.2.3	Bulk milk storage conditions	11
5.2.4	Seasonal variations	11
5.2.5	Sampling and pre-treatment of the test samples	11
5.2.6	Test sample preservation	11
5.2.7	Milk production conditions	11
5.3	Analytical factors	12
5.3.1	Instrument make and model	12
5.3.2	Chemicals	12
5.3.3	High somatic cell counts	12
6	Test samples	12
6.1	Calculation of number of test samples	12
6.2	Range of test samples	13
6.3	Representativeness of samples	13
6.4	Pre-treatment of test samples	13
6.4.1	General	13
6.4.2	Preparation of sub-samples	13
6.4.3	Storage and transport of sub-samples	14
7	Analysis	14
8	Establishing a conversion relationship	14
8.1	General	14
8.2	Validity of results	14
8.3	Conversion relationship	15
8.4	Calculations	15
8.4.1	General	15

8.4.2	Removal of outliers	15
8.4.3	Conversion relationship	15
9	Verification of a conversion relationship	16
9.1	Frequency of verification	16
9.2	Calculation	16
10	Test report	16
Annex A (informative) Number of test samples for linear regression		18
Annex B (informative) Example identification of outliers and calculation of conversion relationship		21
Annex C (informative) Example--Calculation of significance (verification of conversion relationship) ...		22
Bibliography		26