

ISO 5725-4:1994-12 (E)

Accuracy (trueness and precision) of measurement methods and results - Part 4: Basic methods for the determination of the trueness of a standard measurement method

Contents

Page

1 Scope	1
2 Normative references	1
3 Definitions	2
4 Determination of the bias of a standard measurement method by an interlaboratory experiment	2
4.1 The statistical model	2
4.2 Reference material requirements	2
4.3 Experimental design considerations when estimating the bias of a measurement method	3
4.4 Cross-references to ISO 5725-1 and ISO 5725-2	3
4.5 Required number of laboratories	3
4.6 Statistical evaluation	4
4.7 Interpretation of the results of the statistical evaluation	4
5 Determination of the laboratory bias of one laboratory using a standard measurement method	5
5.1 Carrying out the experiment	5
5.2 Cross-references to ISO 5725-1 and ISO 5725-2	6
5.3 Number of test results	6
5.4 Choice of reference materials	6
5.5 Statistical analysis	6
6 The report to, and the decisions to be taken by, the panel	7
6.1 Report by the statistical expert	7
6.2 Decisions by the panel	7
7 Utilization of trueness data	7
Annexes	
A Symbols and abbreviations used in ISO 5725	8
B Example of an accuracy experiment	10
B.1 Description of the experiment	10
B.2 Precision assessment	10
B.3 Trueness assessment	10
B.4 Further analysis	11
C Derivation of equations	21
C.1 Equations (5) and (6) (see 405)	21
C.2 Equations (19) and (20) (see 503)	22
D Bibliography	23