

DIN EN 16963:2018-03 (E)

Fertilizers - Determination of boron, cobalt, copper, iron, manganese, molybdenum and zinc using ICP-AES

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	5
5	Interferences	6
5.1	General	6
5.2	Spectral interferences	6
5.3	Transport interferences	6
5.4	Excitation interferences	6
5.5	Chemical interferences	6
5.6	Memory interferences	6
6	Reagents	7
7	Apparatus	7
8	Procedure	8
8.1	Preparation of test and blank solution	8
8.2	Preparation of the calibration solutions	8
8.3	Measurement	8
8.3.1	Instrument conditions	8
8.3.2	Optimization of the instrument conditions	9
8.3.3	Interferences	9
8.3.4	Matrix effects	9
8.3.5	Spiking	10
9	Calculation and expression of the results	11
10	Precision	12
10.1	Inter-laboratory tests	12
10.2	Repeatability	12
10.3	Reproducibility	12
11	Test report	16
Annex A (informative) Statistical results of the inter-laboratory test		17
Bibliography		32