

ISO 12739:2006-07 (E)

Zinc sulfide concentrates - Determination of zinc - Ion-exchange/EDTA titrimetric method

Contents	Page
1 Scope	1
2 Normative references	1
3 Principle	1
4 Reagents	1
5 Apparatus	3
6 Sample	3
6.1 Test sample	3
6.2 Test portion	3
7 Procedure	3
7.1 Number of determinations	3
7.2 Blank test	4
7.3 Dissolution of test portion	4
7.4 Preparation of the ion-exchange column	4
7.5 Adsorption of zinc on ion-exchange column	5
7.6 Elution of zinc from ion-exchange column	5
7.7 Titration	5
7.8 Determination of the titration factor of the EDTA standard volumetric solution	5
8 Expression of results	6
9 Precision	7
9.1 Expression of precision	7
9.2 Procedure for obtaining the final result	7
9.3 Between-laboratories precision	7
9.4 Check of trueness	8
10 Test report	9
Annex A (normative) Ion-exchange resins and columns	10
Annex B (normative) Procedure for the preparation and determination of the mass of a predried test portion	12
Annex C (normative) Determination of cadmium by atomic absorption spectrometry	14
Annex D (normative) Flowchart of the procedure for the acceptance of analytical values for test samples	16
Annex E (informative) Effect of potentially interfering elements	17
Annex F (informative) Derivation of precision equations	18
Bibliography	23