ISO 11733:2004-08 (E)

Water quality - Determination of the elimination and biodegradability of organic compounds in an aqueous medium - Activated sludge simulation test

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Principle 3

5 Test environment 4

6 Reagents 4

7 Apparatus 7

8 Procedure 8
8.1 General 8
8.2 Preparation of the inoculum 8
8.3 Performance of the test 8

9 Calculation and expression of results 11
9.1 Calculation of the degree of elimination 11
9.2 Expression of results 12
9.3 Indication of biodegradation 12
9.4 Biodegradation of the organic medium 12

10 Validity of the test 12

11 Test report 13

Annex A (informative) Modification of the activated sludge simulation test for nitrifying-denitrifying sewage treatment plants 14

Annex B (informative) Coupling of the test units (optional) 18

Annex C (informative) Test systems 19

Annex D (informative) Effects of sludge retention time on effluent concentration 22

Annex E (informative) Example of an elimination/degradation curve 25

Bibliography 26