ISO 11350:2012-05 (E)

Water quality - Determination of the genotoxicity of water and waste water - Salmonella/microsome fluctuation test (A mes fluctuation test)

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Interferences 3

5 Principle 4

6 Apparatus and materials 4

7 Reagents, media and dilutions 5

8 Sampling and samples 9

9 Procedure 9
9.1 Overnight culture 9
9.2 Preparation of S9 mix 10
9.3 Testing of water samples 10
9.4 Measurement of revertant growth 13
9.5 Calculation of cytotoxicity 13

10 Validity criteria 14

11 Assessment criteria 14

12 Test report 14

Annex A (normative) Nutrient broth and agar 15

Annex B (normative) Preparation of ampicillin agar plates and stock cultures 16

Annex C (normative) Checking of genotype 17

Annex D (normative) S9 fraction 18

Annex E (informative) Example for application of samples on a 24 well plate 19

Annex F (informative) Example for reporting 21

Annex G (informative) Testing of chemicals 22

Annex H (informative) Precision data 25

Annex I (informative) Statistical assessment 27

Annex J (informative) Measurement of the lowest ineffective dilution (LID) of a waste water -- A simplified evaluation for testing of waste water 33

Annex K (informative) Use of additional tester strains 35

Bibliography 36