

DIN EN ISO 11350:2026-01 (E)

Water quality - Determination of the genotoxicity of water and waste water - Salmonella/microsome fluctuation test (Ames fluctuation test) (ISO 11350:2012)

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