ISO 23196:2022-02 (E)

Water quality - Calculation of biological equivalence (BEQ) concentrations

Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Principle **2**

5 Procedure **5**

5.1 General 5

5.2 Procedure for the calculation of biological equivalence (BEQ) concentrations 5

5.2.1 Assessment of the suitability of the experimental data for the calculation of a biological equivalence (BEQ) concentration 5

5.2.2 Fitting of concentration-effect data for the reference compound 8

5.2.3 Calculation of quality measures for the fit 9

5.2.4 Normalization of data from the reference compound and samples 10

5.2.5 Calculation of the *x* %-effect level of the reference concentration-effect relationship and the respective RC_x-value 11

5.2.6 Assessment of the validity of the experimental data for the calculation of a biological equivalence (BEQ) concentration 12

5.2.7 Calculation of the concentration factor of the sample at *x* %-effect level by linear interpolation 12

5.2.8 Calculation of the biological equivalence (BEQ) concentration 13

6 Validity criteria **14**

7 Test report **14**

Annex A (informative) **Illustration of χ^2 statistics using data from Table 1** **15**

Bibliography **18**