

DIN EN ISO 23196:2023-11 (E)

Water quality - Calculation of biological equivalence (BEQ) concentrations (ISO 23196:2022)

Contents		Page
European foreword	.....	3
Foreword	.....	4
1 Scope	.....	5
2 Normative references	.....	5
3 Terms and definitions	.....	5
4 Principle	.....	6
5 Procedure	.....	9
5.1 General	.....	9
5.2 Procedure for the calculation of biological equivalence (BEQ) concentrations	.....	9
5.2.1 Assessment of the suitability of the experimental data for the calculation of a biological equivalence (BEQ) concentration	.....	9
5.2.2 Fitting of concentration-effect data for the reference compound	.....	12
5.2.3 Calculation of quality measures for the fit	.....	13
5.2.4 Normalization of data from the reference compound and samples	.....	14
5.2.5 Calculation of the x %-effect level of the reference concentration-effect relationship and the respective RC_x -value	.....	15
5.2.6 Assessment of the validity of the experimental data for the calculation of a biological equivalence (BEQ) concentration	.....	16
5.2.7 Calculation of the concentration factor of the sample at x %-effect level by linear interpolation	.....	16
5.2.8 Calculation of the biological equivalence (BEQ) concentration	.....	17
6 Validity criteria	.....	18
7 Test report	.....	18
Annex A (informative) Illustration of χ^2 statistics using data from Table 1	.....	19
Bibliography	.....	22