DIN EN 14757:2015-08 (E)

Water quality - Sampling of fish with multi-mesh gillnets

Contents

Page

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Principle 6

5 Equipment 6
5.1 Benthic gillnets 6
5.2 Pelagic gillnets 7

6 Sampling design and procedure 7
6.1 Sampling design 7
6.2 Planning 8
6.3 Sampling period 8
6.4 Sampling 9
6.5 Safety instructions 9

7 Time series sampling 9
7.1 Sampling effort 9
7.2 Depth stratification of benthic gillnets 10
7.3 Sampling of the pelagic habitat 12

8 Inventory sampling 12
8.1 Sampling effort 12
8.2 Depth stratification of benthic gillnets 12

9 Data handling and reporting 13
9.1 Fish data 13
9.2 Supplementary data 14
9.3 Databases and quality control 15

10 Dealing with gillnet selectivity 16

11 Estimation of sampling variance 16
11.1 Within-lake variation 16
11.2 Within-lake and between-year variation 17
11.3 Between-lake variation 17

12 Applications and further analyses 17

13 Limitations and supplementary sampling 18

14 Alternative sampling 18

Annex A (informative) Distribution of benthic multi-mesh gillnets at different depth strata in lakes with different area and maximum depth 19

Annex B (informative) Sampling fish for age and growth analysis 21

B.1 General 21
B.2 Selection of individuals 21
B.3 Choice of hard structure for age and growth analysis 22
B.3.1 General requirements 22
B.3.2 Otoliths 22
B.3.3 Scales 23
B.3.4 Operculum bones 23
B.3.5 Cleithrum and metapterygoid 23

Annex C (informative) Example of forms for registration of fish and supplementary data 24

Bibliography 27