ISO 5667-27:2025-03 (E)

Water quality - Sampling - Part 27: Guidance on sampling for microplastics in water

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Principles and general considerations **3**

4.1 Methodologies 3

4.1.1 General 3

4.1.2 Grab sampling 3

4.1.3 Volume-reduced sampling 3

4.2 Selecting the most appropriate sampling method 4

4.3 Sampling volume 6

4.4 Quality control 6

4.4.1 General 6

4.4.2 Sources of sampling errors 7

4.4.3 Blanks 7

4.5 Sampling plan 9

4.5.1 General 9

4.5.2 Sampling points 9

4.5.3 Sampling frequency, duration and timing 9

5 Reagents **9**

6 Apparatus **10**

6.1 Grab sampling method 10

6.2 Cascade filtration methods 11

6.3 Net sampling 12

7 Sample handling **16**

7.1 General 16

7.2 Grab sampling method 16

7.3 Cascade filtration methods 16

7.4 Net sampling 17

8 Procedures **17**

8.1 Grab sampling method 17

8.2 Cascade filtration method 1: Sampling of domestic water, treated wastewater and water samples with low suspended solid content 18

8.3 Cascade filtration method 2: Sampling of untreated wastewater or water samples with medium or high suspended solid content 19

8.4 Net sampling 20

9 Sampling report **21**

Bibliography **26**