Vandundersøgelse – Karakterisering af analytiske metoder – Vejledning til udvælgelse af repræsentativ matrix

Water quality – Characterization of analytical methods – Guidelines for the selection of a representative matrix

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 2, *Physical, chemical and biochemical methods*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document has been prepared for the validation of analytical methods applied to the water quality field. It enables a laboratory to determine the characteristics of a material suitable for determination of the performances of an analytical method itself.

It is not intended to provide an exhaustive inventory of all published recipes, but to propose a selection of recipes supporting the characterization of the performances of analytical methods used by a laboratory. For this reason, a restricted number of recipes are proposed. References giving access to other recipes are available in the Bibliography.

This document includes four recipes for preparing marine waters and five recipes for waste waters with controlled characteristics.

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1 Scope

This document specifies representative materials suitable for the determination of the performance characteristics, including uncertainty, during the initial assessment of a quantitative method, used in a laboratory, for physico-chemical water analysis.

This document focuses on five main types of water:

— waters intended for consumption (5.2);

— natural waters (5.3);

— waste waters (5.4);

— marine waters (5.5);

— recreational waters (5.6).

NOTE — Other more specific or less common types of water can be incorporated in any of the above types provided appropriate justifications. The characteristics of the standard matrix are compatible with the characteristics of the samples handled.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5667-3, *Water quality — Sampling — Part 3: Preservation and handling of water samples*

ISO 6107 (all parts), *Water quality — Vocabulary*