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Title: BS ISO 25184 Draft Requirements for reference next generation nucleotide sequences: Verified Next Generation Sequences (VNGS).

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 25184

Requirements for reference next generation nucleotide sequences: Verified Next Generation Sequences (VNGS)

ICS: 07.080

ISO/TC 34/SC 16

Secretariat: **ANSI**

Voting begins on:
2025-08-01

Voting terminates on:
2025-10-24

This document is circulated as received from the committee secretariat.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 34 *Food Products*, Subcommittee SC 16 Horizontal methods for molecular biomarker analysis in collaboration with AOAC INTERNATIONAL. It is being published by ISO and separately by AOAC INTERNATIONAL. The requirements described in this document are equivalent to the Official Methods of Analysis of AOAC INTERNATIONAL, Appendix T, *Standard Requirements for Nucleotide Sequences used in Biothreat Agent Detection, Identification, and Quantification: Verified New Generation Sequences (VNGS)*.

Introduction

Nucleotide sequencing is cross cutting across biomolecular methods in agriculture, food production and the life sciences. Bioinformatic analytical methods and pipelines require reliable reference sequences for comparison with unknown sample sequences. The Verified Next Generation Sequence concept was developed by the AOAC International. It is designed to provide the requirements necessary for a reliable and accurately determined new generation reference sequence. This document provides the requirements for a Verified Next Generation sequence.