Draft for Public Comment

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Responsible committee: W/- Consumer Products and Services Sector Policy and Strategy Committee

Interested committees:

Title: Draft BS ISO 23883 Meat, fish and their products - Determination of fluoroquinolone residue content - High performance liquid chromatography-tandem mass spectrometry method.

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Introduction

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (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.	

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DRAFT International Standard

ISO/DIS 23883

ISO/TC **34**/SC **6**

Secretariat: **SAC**

Voting begins on:
2025-07-21

Voting terminates on:
2025-10-13

Meat, fish and their products — Determination of fluoroquinolone residue content — High performance liquid chromatography-tandem mass spectrometry method

ICS: 67.050; 67.120.10; 67.120.30

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Foreword

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This document was prepared by Technical Committee ISO/TC *34*, *Food products*, Subcommittee SC 6, *Meat, poultry, fish, eggs and their products*.

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Introduction

Fluoroquinolones are synthetic broad-spectrum antimicrobial agents extensively used in veterinary drug for the prevention and treatment of bacterial infections in food-producing animals. Their widespread application, particularly in husbandry and aquaculture, has raised concerns about the presence of residual amounts in edible animal-derived products. Residues of fluoroquinolones in food may cause adverse health effects for human beings, including allergies and disturbances to the intestinal flora. More critically, prolonged exposure to sub-therapeutic levels of these compounds through the food chain is considered to be a contributing factor to the emergence and dissemination of antimicrobial resistance.

To safeguard public health and ensure the safety of animal-derived food, many regulatory authorities have established maximum residue limits (MRLs) for various fluoroquinolone compounds in meat, fish, and related products. The effective enforcement of these limits depends on the availability of sensitive, accurate, and validated analytical methods capable of detecting trace levels of residues in complex biological matrices.

Several analytical approaches have been developed for the determination of fluoroquinolone residues, including microbiological inhibition tests, immunoassays, and instrumental techniques. While microbiological and immunological methods are relatively simple and cost-effective, they often suffer from limited specificity and sensitivity, as well as susceptibility to matrix interferences. In contrast, instrumental methods such as high performance liquid chromatography-tandem mass spectrometry (LC-MS/MS) offer significant advantages in terms of selectivity, precision, and detection capability. The ability of LC-MS/MS to simultaneously quantify multiple fluoroquinolone compounds with high sensitivity makes it particularly suitable for regulatory monitoring and confirmatory analysis across a variety of food matrices.

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