
**Water quality — Gamma-ray emitting
radionuclides — Test method
using high resolution gamma-ray
spectrometry**

*Qualité de l'eau — Radionucléides émetteurs gamma — Méthode
d'essai par spectrométrie gamma à haute résolution*

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Foreword

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This document was prepared by Technical Committee ISO/TC 147, *Water quality*, subcommittee SC 3, *Radioactivity measurements*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 230, *Water analysis*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 10703:2007), which has been technically revised.

The main changes compared to the previous edition are as follows:

- new common Introduction;
- Scope enlarged to emergency situation and to wastewater, upper dead time increase to 10 %;
- the sample storage conditions are in compliance with ISO 5667-3 (see [Clause 10](#));
- modification of the reference source for calibration (see [6.2](#));
- calibration efficiency determination by Monte Carlo method (see [11.2.3](#));
- complete revision of the pulse pile up and dead time;
- complete revision of the true coincidence summing subclause (see [12.1.4](#));
- addition of the correction factor for dead time and pile up (see [12.1.2](#));
- introduction of the shortest coverage interval in accordance with the new ISO 11929 series (see [12.5.2](#));
- modification of the test report (see [Clause 13](#)).

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