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AMENDMENT 1  
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**Sterilization of health care products —  
Radiation —**

**Part 2:  
Establishing the sterilization dose**

**AMENDMENT 1**

*Stérilisation des produits de santé — Irradiation —*

*Partie 2: Établissement de la dose stérilisante*

*AMENDEMENT 1*

ISO 11137-2:2013/Amd 1:2022

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CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
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This document was prepared by Technical Committee ISO/TC 198, *Sterilization of health care products*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 204, *Sterilization of medical devices*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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# Sterilization of health care products — Radiation —

## Part 2: Establishing the sterilization dose

### AMENDMENT 1

#### Clause 2 Normative references

Add the following new normative references:

ISO 11137-1:2006/Amd1:2013, *Sterilization of health care products — Radiation — Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices — Amendment 1*

ISO 11137-1:2006/Amd2:2018, *Sterilization of health care products — Radiation — Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices — Amendment 2: Revision to 4.3.4 and 11.2*

ISO 13004: 20—<sup>1</sup>), *Sterilization of health care products — Radiation — Substantiation of selected sterilization dose: Method  $VD_{\max}^{SD}$*

6.4 <https://standards.iteh.ai/catalog/standards/sist/fbe01d15-1329-4d07-b927-27cfl/iso-11137-2-2013-amd-1-2022>  
Add the following new subclause:

**6.4** If a sterilization dose of 17,5 kGy, 20 kGy, 22,5 kGy, 27,5 kGy, 30 kGy, 32,5 kGy or 35 kGy is established, it shall be substantiated by one of the following methods:

- a) Method  $VD_{\max}^{SD}$  of ISO 13004:20—;
- b) Method 1 (see Clause 7), subject to the derived sterilization dose taking a value less than or equal to the selected sterilization dose and achieving maximally an SAL of  $10^{-6}$ ;
- c) Method 2 (see Clause 8), subject to the derived sterilization dose taking a value less than or equal to the selected sterilization dose and achieving an SAL of  $10^{-6}$ ; or
- d) a method providing equivalent assurance to that of a), b) or c) above in achieving maximally an SAL of  $10^{-6}$ .

#### Clause 9

Replace clause title with the following:

### **9 Method $VD_{\max}$ — Substantiation of a selected sterilization dose**

#### 9.1

Replace subclause title, add new first paragraph and replace original first paragraph as follows:

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- 1) Under preparation. Stage at the time of publication: ISO/DIS 13004.

## 9.1 Selected doses and rationale

Rationale and methods for substantiation of sterilization doses of 15 kGy and 25 kGy using Method  $VD_{max}$  are provided in Clause 9. Rationale and methods for substantiation of sterilization doses of 17,5 kGy, 20 kGy, 22,5 kGy, 27,5 kGy, 30 kGy, 32,5 kGy or 35 kGy using Method  $VD_{max}$  are provided in ISO 13004:20—.

Operationally, Method  $VD_{max}$  for substantiation for a selected sterilization dose is similar to dose setting by Method 1 (see Clause 7); it also requires a determination of bioburden and the performance of a verification dose experiment.

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