



BSI Standards Publication

Foodstuff — Detection of irradiated foodstuff containing cellulose by ESR spectroscopy

National foreword

This British Standard is the UK implementation of EN 1787:2022. It supersedes BS EN 1787:2000, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AW/275, Food analysis - Horizontal methods.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

Foodstuff - Detection of irradiated foodstuff containing cellulose by ESR spectroscopy

Produits alimentaires - Détection par spectroscopie
RPE d'aliments ionisés contenant de la cellulose

Lebensmittel - ESR-spektroskopischer Nachweis von
bestrahlten cellulosehaltigen Lebensmitteln

This European Standard was approved by CEN on 14 February 2022.

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European foreword

This document (EN 1787:2022) has been prepared by Technical Committee CEN/TC 275 “Food analysis - Horizontal methods”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2022, and conflicting national standards shall be withdrawn at the latest by October 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1787:2000.

The predecessor of this document was elaborated on the basis of a protocol developed following a concerted action supported by the Commission of European Union (XII C.5). Experts and laboratories from EU and EFTA countries, contributed jointly to the development of this protocol.

In comparison with the previous edition, the entire document was editorially revised according to current rules. Additionally, the following technical modifications have been made:

- a) the scope was supplemented by the information, that chemical bleaching of nuts in shells can lead to comparable signals;
- b) clause “Terms and definitions” was added;
- c) scientific language usage of clause “Principle” had been clarified;
- d) former 4.1, 4.2 and 4.7 were updated and a footnote added for the g-value calculation;
- e) clause “Procedure” was scientifically refined, its normative character (i.e. provisions set out) modified towards more exemplary/suggestive expressions of provision and aligned with EN 13708;
- f) subclause “General” was added to subclause “Sample preparation”;
- g) clause “Evaluation” was amended by supplementing two subclauses, 7.1 “G-value calculation” and 7.2 “Identification of irradiated samples”, in alignment with EN 13708, including implementing its former content into 7.2, whereas “6,0 mT” was refined to “6,05 mT ± 0,05 mT”;
- h) clause “Limitations” was extended;
- i) Figures A.5 and A.7 of irradiated but bleached nutshells from hazelnuts and walnuts and Figures A.6 and A.8 of irradiated (not bleached) nutshells from hazelnuts and walnuts were added;
- j) Annex B was extended by the matrix hazelnuts;
- k) the Bibliography was updated and extended by entry [23], [24] and [25].

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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