



NSAI
Standards

Irish Standard Recommendation
S.R. CEN/TS 17780:2022

Organic, organo-mineral and inorganic
fertilizers - Detection of *Salmonella* spp.

S.R. CEN/TS 17780:2022

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

S.R. CEN/TS 17780:2022 is the adopted Irish version of the European Document CEN/TS 17780:2022, Organic, organo-mineral and inorganic fertilizers - Detection of Salmonella spp.

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TECHNICAL SPECIFICATION

CEN/TS 17780

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ICS 65.080

English Version

Organic, organo-mineral and inorganic fertilizers - Detection of *Salmonella* spp.

Engrais organiques, organo-minéraux et inorganiques -
Recherche des *Salmonella* spp.

Organische, organisch-mineralische und mineralische
Düngemittel - Nachweis von *Salmonella* spp.

This Technical Specification (CEN/TS) was approved by CEN on 21 February 2022 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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European foreword

This document (CEN/TS 17780:2022) has been prepared by Technical Committee CEN/TC 260 “Fertilizers and liming materials”, the secretariat of which is held by DIN.

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.

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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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CEN/TS 17780:2022 (E)**Introduction**

This document describes a method for the detection of *Salmonella* spp. in fertilizers of the following Product Function Categories (PFCs) of EU fertilizing products, as described in the Regulation (EU) 2019/1009 [1]:

- PFC 1(A): Organic fertilizer;
- PFC 1(B): Organo-mineral fertilizer;
- PFC 1(C): Inorganic fertilizer, which contains more than 1 % by mass of organic carbon, other than organic carbon from chelating or complexing agents, nitrification inhibitors, denitrification inhibitors or urease inhibitors, coating agents, urea or calcium cyanamide. The present method was validated on products known as present on the market in April 2021 and conform to Regulation (EU) 2019/1009 [1] that are inorganic fertilizers with more than 1 % of organic carbon such as struvite with low level of organic matter. In case that other products would be developed having other physical and chemical characteristics, it might become necessary to develop different methods to correctly account for pathogenic microorganisms they might contain.

1 Scope

This document is applicable to fertilizing products, which are classified as PFC 1(A) and PFC 1(B) or the PFC 1(A) and PFC 1(B) component in PFC 7 of Regulation (EU) 2019/1009 [1]. However, the present method was not validated for blends.

This document specifies a method for the detection of *Salmonella* spp. in organic, organo-mineral and inorganic fertilizers. The method is based on EN ISO 6579-1 and its validated alternative methods for the detection of *Salmonella* spp. in food and feeding stuff.

It requires three successive steps: A selective enrichment, an isolation on a chromogenic agar, and if positive a confirmation with a serological test (and if required, a selective media).

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

***Salmonella* spp.**

microorganism which forms typical colonies on solid selective media described and which displays the morphological, physiological and biochemical characteristics described when the analysis is carried out in accordance with this document

3.2

detection of *Salmonella*

determination of the detection or not detection of *Salmonella* spp. (3.1), in 25 g or 25 ml of product, when tests are carried out in accordance with this document

3.3

laboratory sample

sample intended for laboratory inspection or testing

3.4

test sample

sample prepared from the laboratory sample (3.3) and from which test portions (3.5) will be taken

3.5

test portion

quantity of material taken from the test sample (or if both are the same, from the laboratory sample) and on which the test is carried out

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