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IRISH STANDARD

I.S. CEN/TR 15215-3:2006

ICS 07.100.99

CHARACTERIZATION OF SLUDGES - DETECTION AND ENUMERATION OF SALMONELLA SPP. IN SLUDGES, SOILS, SOIL IMPROVERS, GROWING MEDIA AND BIOWASTES - PART 3: PRESENCE/ABSENCE METHOD BY LIQUID ENRICHMENT IN PEPTONE-NOVOBIOCIN MEDIUM FOLLOWED BY RAPPORT-VASSILIADIS

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This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:
April 13, 2006

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TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

CEN/TR 15215-3

January 2006

ICS 07.100.99

English Version

Characterization of sludges - Detection and enumeration of Salmonella spp. in sludges, soils, soil improvers, growing media and biowastes - Part 3: Presence/absence method by liquid enrichment in peptone-novobiocin medium followed by Rapport-Vassiliadis

Détection et dénombrement de Salmonella spp. dans les boues, les sols, les engrais, les amendements organiques et les biodéchets - Partie 3: Présence/absence par enrichissement en milieu liquide peptone-novobiocine puis sur milieu Rapport-Vassiliadis

Quantitativer Nachweis von Salmonella spp. in Schlämmen, Böden, Düngemitteln und Bodenverbesserern, Kultursubstraten sowie Bioabfällen - Teil 3: Verfahren der Flüssiganreicherung in Peptonwasser mit Novobiocin gefolgt durch Rapport-Vassiliadis zum qualitativen Nachweis des Vorkommens

This Technical Report was approved by CEN on 3 September 2005. It has been drawn up by the Technical Committee CEN/TC 308.

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Foreword

This Technical Report (CEN/TR 15215-3:2006) has been prepared by Technical Committee CEN/TC 308 “Characterisation of sludges”, the secretariat of which is held by AFNOR.

This Technical Report does not replace any existing CEN method

This standard is divided into three parts:

- part 1 gives a membrane filtration method

- part 2 is a liquid enrichment method and determination by MPN and

- part 3 is a presence / absence method by liquid enrichment.

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Introduction

Sludges, soils, soil improvers, growing media and biowastes can contain pathogenic micro-organisms such as *Salmonella* spp. which occur mainly in the intestinal tract of humans and animals and are transmitted through faecal contamination. The use of such pathogen-contaminated materials in agriculture can cause outbreaks of infection due to the production of contaminated food or animal feedstocks and may also be transmitted to wild animals, consequently, there is a need to monitor rates to land. See CEN/TR 15215-2.

Examination for *Salmonellae* should only be carried out in laboratories competent for carrying out work involving pathogens. Suitable quality control procedures, at least those described in ISO 8199, have to be applied.

WARNING — "Waste and sludge samples can contain hazardous and inflammable substances. They can contain pathogens and be liable to biological action. Consequently, it is recommended that these samples should be handled with special care. The gases which can be produced by microbiological activity are potentially inflammable and will pressurise sealed bottles. Exploding bottles are likely to result in infectious shrapnel and/or pathogenic aerosols. Glass bottles should be avoided wherever possible. National regulations should be followed with respect to microbiological hazards associated with this method"

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