

Characterization of sludges — Determination of Kjeldahl nitrogen

The European Standard EN 13342:2000 has the status of a
British Standard

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National foreword

This British Standard is the official English language version of EN 13342:2000.

The UK participation in its preparation was entrusted to Technical Committee EH/5, Sludge characterization, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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

Further information

Users of this standard are informed that the UK submitted some substantial comments at the final voting stage of the draft EN for the following reasons.

1) In annex A, it is essential that the description of the four samples used in the inter-laboratory comparison is given. This can be achieved by the addition of a simple footnote. It is recommended that this topic is discussed at the TC308 meeting in Utrecht. A documented minimum requirement for inter-laboratory comparisons is needed.

2) The following note should be added to the scope: “The validation for this standard has only been carried out using materials as described in annex A. For other sludges, the user should validate the method using recovery and reproducibility tests”.

3) The date that the laboratory inter-comparison was carried out should be also given.

4) The final phrase “and sludge products”, in the first sentence of the scope should be removed as it is inappropriate.

5) In 5.1, suggest replacing the first sentence, “The digestion fails to determine nitrogen in the form”, with “The digestion may fail to fully recover nitrogen in the form of”. Also suggest that a cross-reference to the UK Blue Book method be made. This has a useful introductory historical section (A1) on recoveries of “difficult” nitrogen species using the Kjeldahl method. [Kjeldahl Nitrogen in Waters 1987, HMSO 1988, ISBN 0 11 752129 9]

6) In annex A:

- (i) CV_R , in column 6, should be CV_T in all three language versions:
- (ii) all of the English and German coefficients of variation of both reproducibility (CV_R) and repeatability (CV_T) are wrongly calculated. The values are wrong by up to a factor three, which is to high.

This British Standard, having been prepared under the direction of the Health and Environment Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 October 2000

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Amendments issued since publication

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7) In the section on Analytical Quality Control (AQC), it is recommended that an additional brief section be added on the use of adequate AQC as per CEN/TC223 methods: “The analysis described in this standard should be carried out within a Quality Control system utilizing Analytical Quality Control measures. Where performance data is absent for the sample type, at a minimum recovery and reproducibility data should be obtained”.

Cross-references

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 11 and a back cover.

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English version

Characterization of sludges - Determination of Kjeldahl nitrogen

Caractérisation des boues - Détermination de l'azote
Kjeldahl

Charakterisierung von Schlämmen - Bestimmung des
Stickstoffs nach Kjeldahl

This European Standard was approved by CEN on 5 August 2000.

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