



BSI Standards Publication

Algae and algae products — Methods of sampling and analysis — Sample treatment

National foreword

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The UK participation in its preparation was entrusted to Technical Committee EH/3/-/5, Algae and Algae Products.

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

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English Version

Algae and algae products - Methods of sampling and analysis - Sample treatment

Algues et produits à base d'algues -
Méthodes d'échantillonnage et d'analyse
- Traitement des échantillons

Algen und Algenprodukte - Methoden zur
Probeentnahme und Analyse - Probebehandlung

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword	iii
Introduction	iv
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Principle	9
5 Apparatus	9
5.1 General	9
5.2 Sample storage	9
5.3 Ash content	9
6 Reagents and materials	10
7 Procedures	10
7.1 General	10
7.2 Handling of samples	12
7.2.1 Sampling	12
7.2.2 Transport	12
7.2.3 Registration	12
7.2.4 Storage	13
7.2.5 Clean-up procedure (for wet samples)	13
7.2.6 Homogenization	13
7.2.7 Division into test samples	13
7.2.8 Microbiological analysis	13
7.2.9 Drying procedures	13
7.3 Sample preparation	14
7.4 Analysis	14
7.5 Analysis of stored samples	15
8 Calculations	15
9 Quality control	16
10 Report	16
Annex A (informative) Example of a sample registration form	17
Bibliography	18

European foreword

This document (EN 17605:2022) has been prepared by Technical Committee CEN/TC 454 “Algae and algae products”, the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.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.

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Introduction

This document has been prepared by the experts of CEN/TC 454 “Algae and algae products”.

The European Committee for Standardization (CEN) was requested by the European Commission (EC) to draft European standards or European standardization deliverables to support the implementation of [Article 3](#) of Directive 2009/28/EC for algae and algae products.

This request, presented as Mandate M/547¹⁾, also contributes to the Communication on “Innovating for Sustainable Growth: A Bio economy for Europe”.

The former working group CEN Technical Board Working Group 218 “Algae”, was created in 2016 to develop a work programme as part of this Mandate. The technical committee CEN/TC 454 “Algae and algae products” was established to carry out the work programme that will prepare a series of standards.

The interest in algae and algae products has increased significantly in Europe as a valuable source including but not limited to carbohydrates, proteins, lipids, and several pigments. These materials are suitable for use in a wide range of applications from food and feed purposes to other sectors, such as textile, cosmetics, biopolymers, biofuel and fertilizer/biostimulants. Standardization was identified as having an important role in order to promote the use of algae and algae products.

The work of CEN/TC 454 should improve the reliability of the supply chain, thereby improving the confidence of industry and consumers in algae and algae products and will promote and support commercialisation of the European algae industry.

This document has been developed with the aim to enable laboratories to conduct a standardized procedure for sample preparation to be used for analysing samples of algae and algae products.

1) Available at <http://ec.europa.eu/growth/tools-databases/mandates/index.cfm?fuseaction=refSearch&cat=114>

1 Scope

This document specifies the sample preparation of dry and wet samples of algae and algae products. This document enables laboratories analysing algae samples to report accurate dry weight percentages and to obtain representative samples possible for further examination.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 17399:2020, *Algae and algae products - Terms and definitions*

EN ISO 24333:2009, *Cereals and cereal products — Sampling*

EN ISO 5667-1:2006, *Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 17399:2020 and the following 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

lot

quantity of material that is assumed to be of the same production process and represented by specified sampling rules

[SOURCE: EN ISO 6498:2012, definition 2.1.1]

3.2

laboratory sample

sample as prepared (from the lot) for sending to the laboratory and intended for inspection or testing

[SOURCE: EN ISO 6498:2012, definition 2.1.2]

3.3

test sample

subsample or sample prepared from the laboratory sample and from which test portions will be taken

[SOURCE: EN ISO 6498:2012, definition 2.1.3]

3.4

test portion

quantity of material drawn from the test sample (or from the laboratory sample if both are the same)

[SOURCE: EN ISO 6498:2012, definition 2.1.4]

3.5

reserve sample

material left over from the laboratory sample when divided or subsampled test samples have been taken and on which no further particle size reduction is done

[SOURCE: EN ISO 6498:2012, definition 2.1.5, modified – the note is left out]