Soil improvers and growing media - Determination of plant response - Part 1: Pot growth test with Chinese cabbage

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NATIONAL FOREWORD

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Foreword

This document (EN 16086-1:2011) has been prepared by Technical Committee CEN/TC 223 “Soil improvers and growing media”, the secretariat of which is held by ASI.

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of an identical text or by endorsement, at the latest by May 2012, and conflicting national standards shall be withdrawn at the latest by May 2012.

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1 Scope

This European Standard describes a method for the routine determination of the effect of soil improvers and growing media or constituents thereof on the growth of Chinese cabbage (and in certain cases spring barley).

This test may not be suitable for all growing media since the growing media characteristics (e.g. nutrient content) will vary according to target use and the product is not tested in accordance with the specified use and pack recommendations.

This test is not appropriate for the detection of nitrogen immobilization.

2 Normative references

The following referenced documents are indispensable for the application 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 13037, *Soil improvers and growing media – Determination of pH*

EN 13038, *Soil improvers and growing media – Determination of electrical conductivity*

EN 13040, *Soil improvers and growing media – Sample preparation for chemical and physical tests, determination of dry matter content, moisture content and laboratory compacted bulk density*

EN ISO 3696, *Water for analytical laboratory use – Specification and test methods (ISO 3696:1987)*

3 Terms and definitions

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

3.1
plant response
variation in plant germination and/or growth when sown and grown in a growing medium, soil improver or constituent thereof or in an extract obtained from these materials

Factors causing negative plant growth cannot be identified nor quantified by applying this method.

3.2
prepared sample
portion of the laboratory sample, undiluted or diluted with sphagnum peat at given ratios, fertilized and limed as required