

ISO/TS 23016-1:2019 (E)

Fine bubble technology — Agricultural applications — Part 1: Test method for evaluating the growth promotion of hydroponically grown lettuce

Contents

	Foreword	
	Introduction	
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Test method for growth promotion performance on lettuce	
4.1	Conditions of test environment	
4.2	Test system and related apparatus	
4.3	Materials for test	
4.4	Preparation for test	
4.4.1	Confirmation of the working conditions of the fine bubble line system	
4.4.2	Hydroponic bed system	
4.4.3	Operator(s) and inspector(s)	
4.4.4	Operation manual	
4.5	Preliminary test for confirmation of reproducibility	
4.5.1	General	
4.5.2	Confirmation of reproducibility	
4.5.3	Actions when there is a statistically significant difference	
4.6	Test procedure	
4.6.1	Preparation of lettuce seedling	
4.6.2	Growth system	
4.6.3	Sampling	
4.6.4	Records	
4.6.5	Number of tests	
4.7	Calculation of degree of growth promotion	
4.8	Test report	
Annex A	(informative) Example of test results for lettuce growth promotion performance	
A.1	Example of recording format for measurements of test lettuce mass	
A.2	Graphic example of test results	
Annex B	(informative) Example of recording format for measurement figures of environmental parameters	

Page count: 12