

TG/PLEUR(proj.4)
ORIGINAL: English
DATE: 2012-08-28

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

OYSTER MUSHROOM; KING OYSTER MUSHROOM; LUNG OYSTER MUSHROOM

UPOV Code: PLEUR_OST; PLEUR_ERY; PLEUR_PUL

Pleurotus ostreatus (Jacq.) P. Kumm.; Pleurotus eryngii (DC.) Quél.; Pleurotus pulmonarius (Fr.) Quél.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the Republic of Korea

to be considered by the

Enlarged Editorial Committee at its meeting, to be held in Geneva, on January 9 and 10, 2013

Alternative Names:

Botanical name English French German Spanish Pleurotus ostreatus Hiratake; Pleurote en coquille Girgola Drehling (Jacq.) P. Kumm. Oyster Mushroom Seta de ostra Champiñon ostra Seta de cardo Pleurotus eryngii Enringi; (DC.) Quél. King Oyster Mushroom Luna Ovster Pleurotus Pleuroto pulmonado pulmonarius Mushroom; Pleuroto de verano (Fr.) Quél. Usuhiratake

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

TG/PLEUR(proj.4) Oyster Mushroom, 2012-08-28

- 2 -

1 /	ABLE OF CO	INTENTS	PAGE
1.	SUBJECT O	F THESE TEST GUIDELINES	3
2.	MATERIAL F	REQUIRED	3
3.	METHOD OF	EXAMINATION	3
	3.1 NUMBER 3.2 TESTING 3.3 CONDITI 3.4 TEST DE	R OF GROWING CYCLES	3 3
4.	ASSESSME	NT OF DISTINCTNESS, UNIFORMITY AND STABILITY	2
	4.2 Uniform	TNESS	5
5.	GROUPING	OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL	5
6.	INTRODUCT	TION TO THE TABLE OF CHARACTERISTICS	5
	6.2 STATES6.3 TYPES C6.4 EXAMPL	ORIES OF CHARACTERISTICS	6 6
7.		CHARACTERISTICS/TABLEAU DES CARACTÈRES/MERKMALSTABELLE/TABLA DE ES	
8.	EXPLANATION	ONS ON THE TABLE OF CHARACTERISTICS	11
	8.2 EXPLANA	R SPECIES OF PLEUROTUS	11
9.	LITERATUR	E	16
10	TECHNICAL	OUESTIONNAIRE	17

- 3 -

1. <u>Subject of these Test Guidelines</u>

These Test Guidelines apply to all varieties of *Pleurotus ostreatus* (Jacq.) P. Kumm., *Pleurotus eryngii* (DC.) Quél., *Pleurotus pulmonarius* (Fr.) Quél..

2. Material Required

- 2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.
- 2.2 The material is to be supplied in the form of spawn or as a pure culture on a suitable medium.

Pure cultures must be on slant agar tubes with an appropriate medium such as PDA (potato dextrose agar) or Malt extract agar. Tubes should be covered by cotton plugs or plastic caps allowing sterile air diffusion. Cultures should be fresh, i.e. not stored for longer than 2 weeks at low temperature.

2.3 The minimum quantity of material, to be supplied by the applicant, should be:

2 liters of spawn or 5 slant tubes containing a pure culture.

2.4 The material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 Number of Growing Cycles

The minimum duration of tests should normally be two independent growing cycles. The growing cycle is considered to be from spawning until the end of the first flush.

3.2 Testing Place

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 Conditions for Conducting the Examination

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.4 Test Design

- 3.4.1 Each test should be designed to result in a total of at least 90 fruit bodies, which should be divided between at least 3 replicates. Only the first flush has to be observed.
- 3.4.2 The design of the tests should be such that fruit bodies or parts of fruit bodies may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.5 Additional Tests

Additional tests, for examining relevant characteristics, may be established.

- 4 -

4. Assessment of Distinctness, Uniformity and Stability

4.1 Distinctness

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.1.4 Number of Fruit Bodies / Parts of Fruit Bodies to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single fruit bodies should be made on 90 fruit bodies or parts taken from each of 90 fruit bodies and any other observations made on all fruit bodies in the test, disregarding any off-type fruit bodies.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the second column of the Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation of characteristics"):

MG: single measurement of a group of fruit bodies or parts of fruit bodies

MS: measurement of a number of individual fruit bodies or parts of fruit bodies

VG: visual assessment by a single observation of a group of fruit bodies or parts of fruit bodies

VS: visual assessment by observation of individual fruit bodies or parts of fruit bodies

Type of observation: visual (V) or measurement (M)

"Visual" observation (V) is an observation made on the basis of the expert's judgment. For the purposes of this document, "visual" observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual plants or parts of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness."

- 5 -

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

4.2 Uniformity

- 4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:
- 4.2.2 For the assessment of uniformity, a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 90 fruit bodies, 3 off-types are allowed.

4.3 Stability

- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.
- 5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.
- 5.3 The following have been agreed as useful grouping characteristics:
 - (a) Stipe: shape in longitudinal section (characteristic 3)
 - (b) Cap: curvature of upper surface in longitudinal section (characteristic 7)
 - (c) Cap: color (characteristic 8)
 - (d) Fruit body: cluster (characteristic 12)
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. <u>Introduction to the Table of Characteristics</u>

6.1 Categories of Characteristics

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 States of Expression and Corresponding Notes

- 6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.
- 6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

6.3 Types of Expression

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 Example Varieties

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

TG/PLEUR(proj.4) Oyster Mushroom, 2012-08-28

6.5 Legend

(1) Type of example variety—see Chapter 8.1

(*) Asterisked characteristic – see Chapter 6.1.2

QL Qualitative characteristic — see Chapter 6.3 QN Quantitative characteristic — see Chapter 6.3 PQ Pseudo-qualitative characteristic — see Chapter 6.3

MG, MS, VG, VS – see Chapter 4.1.5

(+) See Explanations on the Table of Characteristics in Chapter 8.2.

TG/PLEUR(proj.4) Oyster Mushroom/Pleurote en coquille/Drehling/Pleuroto, 2012-08-28 - 8 -

7. <u>Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres</u>

		English	français	deutsch	español	Example Varieties(1)/ Exemples(1)/ Beispielssorten(1)/ Variedades ejemplo(1)	Note/ Nota
1. (+)	VG/ MS	Stipe: length	Stipe : longueur	Stiel: Länge	Pie: longitud		
QN		short	court	kurz	corto	Nonggi 2-1ho(o)	3
		medium	moyen	mittel	medio	Chunchu2ho(o), Helios(o), HOKUTO PLE-2go(e)	5
		long	long	lang	largo	Hwasung 2ho(o), KX-EG070(e)	7
2. (+)	VG/ MS	Stipe: diameter	Stipe : diamètre	Stiel: Durchmesser	Pie: diámetro		
QN		small	petit	klein	pequeño	Chunchu2ho(o)	3
		medium	moyen	mittel	medio	Fotios(o), HK 35(o), HOKUTO PLE-2go(e), Suhan(o)	5
		large	grand	groß	grande	Aeryni(e), KX-EG070(e)	7
3. (*) (+)	VG	Stipe: shape in longitudinal section	Stipe : forme en section longitudinale	Stiel: Form im Längsschnitt	Pie: forma en sección longitudinal		
PQ		club-shaped	en forme de massue	keulenförmig	mazudo	Aeryni(e), HOKUTO PLE-2go(e), KX-EG070(e)	1
		cylindrical	cylindrique	zylinderförmig	cilíndrico	Chunchu2ho(o), Helios(o)	2
		pot-shaped	en forme de pot	topfförmig	en forma de puchero	Maehyang(e)	3
		tapered at base	fuselé à la base	konisch an der Basis	claviforme	Mongblang(e)	4
4. (+)	VG/ MS	Cap: height	Chapeau : hauteur	Hut: Höhe	Sombrero: altura		
QN		short	court	niedrig	corto	Helios(o), HK 35(o)	3
		medium	moyen	mittel	medio	HOKUTO PLE-2go(e)	5
		tall	haut	hoch	alto	Chunchu 2ho(o), KX-EG079(e), Suhan (o)	7
5. (+)	VG/ MS	Cap: diameter	Chapeau : diamètre	Hut: Durchmesser	Sombrero: diámetro		
QN		small	petit	klein	pequeño	Goni(o), Helios(o)	3
		medium	moyen	mittel	medio	HOKUTO PLE-2go(e), HK 35(o), Suhan(o)	5
		large	grand	groß	grande	Fotios(o), KX-EG079(e), Nonggi 2-1ho(o)	7
6.	VG/ MS	Cap: ratio: height/diameter	Chapeau : rapport hauteur/diamètre	Hut: Verhältnis: Höhe/Durchmesser	Sombrero: relación: altura/diámetro		
QN		low	bas	klein	pequeño	Goni(o)	3
		medium	moyen	mittel	medio	Suhan(o)	5
		high	élevé	groß	alto	Chunchu 2ho(o), Ikaros(o)	7

TG/PLEUR(proj.4) Oyster Mushroom/Pleurote en coquille/Drehling/Pleuroto, 2012-08-28 - 9 -

		English	français	deutsch	español	Example Varieties(1)/ Exemples(1)/ Beispielssorten(1)/ Variedades ejemplo(1)	Note/ Nota
7. (*) (+)	VG	Cap: curvature of upper surface in longitudinal section	Chapeau : courbure de la surface supérieure en section longitudinale	Hut: Wölbung der Oberfläche im Längsschnitt	Sombrero: curvatura de la superficie superior en sección longitudinal		
QN		convex	convexe	konvex	convexo	Nonggi 1ho(o)	1
		flat	plate	flach	plano	Aeryni(e), KX-EG079(e)	3
		concave	concave	konkav	cóncavo	Chunchu 2ho(o), Suhan(o)	5
8. (*)	VG	Cap: color	Chapeau : couleur	Hut: Farbe	Sombrero: color		
PQ		white	blanc	weiß	blanco	Goni(o)	1
		medium brown	brun moyen	mittelbraun	marrón medio	HOKUTO PLE-2go(e), Yeoreumneutari 1ho(p), 3014(p)	2
		dark brown	brun foncé	dunkelbraun	marrón oscuro	Hosan(p)	3
		medium grey	gris moyen	mittelgrau	gris medio	Chunchu 2ho(o), Fotios(o), Helios(o), HK 35(o), Ikaros(o), KX-EG070(e)	4
		dark grey	gris foncé	dunkelgrau	gris oscuro	Manchuri(o), Nonggi 2-1ho(o)	5
9. (+)	VG	Cap: attachment	Chapeau : attache	Hut: Ansatz	Sombrero: unión		
QN		central	centrale	zentral	centrado	HK 35(o), HOKUTO PLE-2go(e)	1
		moderately offset	modérément excentrée	mäßig versetzt	moderadamente descentrado	Suhan(o), KX-EG070(e)	2
		strongly offset	fortement excentrée	stark versetzt	fuertemente descentrado	Yeoreumneutari 1ho(p)	3
10. (+)	VG/ MS	Cap: thickness	Chapeau : épaisseur	Hut: Dicke	Sombrero: grosor		
QN		thin	mince	dünn	fino	Chunchu 2ho(o), Helios(o), KX-EG1001(e)	3
		medium	moyen	mittel	medio		5
		thick	épais	dick	grueso	Aeryni(e), HOKUTO PLE-2go(e)	7
11. (+)	VG	Number of basidiospores	Nombre de basidiospores	Anzahl von Basidiosporen	Número de basidioesporas		
QN		absent or very few	nul ou très petit	fehlend or sehr wenige	ausente o muy bajo	Spoppo(o)	1
		medium	moyen	mittel	medio	KX-EG070(e), Suhan(o)	2
		many	grand	viele	alto	HK 35(<i>o</i>), Yeoreumneutri 1ho(<i>p</i>), 3014(<i>p</i>)	3

TG/PLEUR(proj.4) Oyster Mushroom/Pleurote en coquille/Drehling/Pleuroto, 2012-08-28 - 10 -

		English	français	deutsch	español	Example Varieties(1)/ Exemples(1)/ Beispielssorten(1)/ Variedades ejemplo(1)	Note/ Nota
12. (*)	VG	Fruit body: cluster	Organe de fructification : grappe	Fruchtkörper: Büschel	Cuerpo frutal: agrupación		
QL		absent	absente	fehlend	ausente	KX-EG070(e), Yeoreumneutari1ho(p)	1
		present	présente	vorhanden	presente	HK 35(o), KX-EG1001(e), Suhan(o)	9
13.	MG	Fruit body: period from spawning to first harvest	Organe de fructification : période allant de la durée du champignon jusqu'à la première récolte	Fruchtkörper: Periode von der Pilzbrut bis zur ersten Ernte	Cuerpo frutal: período desde la aparición de micelios hasta la primera cosecha		
QN		short	courte	kurz	corto	Helios(o), Sambok(p)	3
		medium	moyenne	mittel	medio	Chunchu2ho(<i>o</i>), Ikaros(<i>o</i>), KX-EG079(<i>e</i>)	5
						KX-EG070(e),	7

8. <u>Explanations on the Table of Characteristics</u>

8.1 Key for species of Pleurotus

Species	Key in the Table of Characteristics
P. ostreatus	0
P. eryngii	е
P. pulmonarius	p

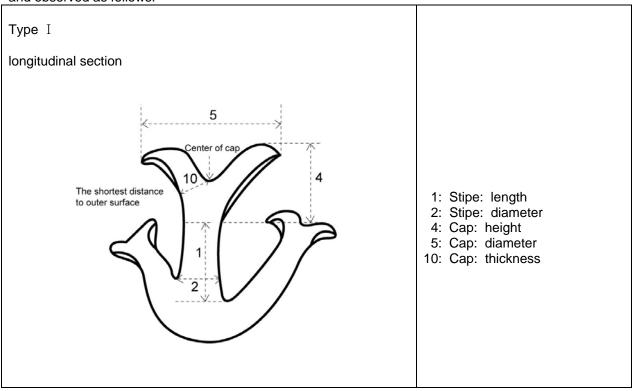
8.2 Explanations covering several characteristics

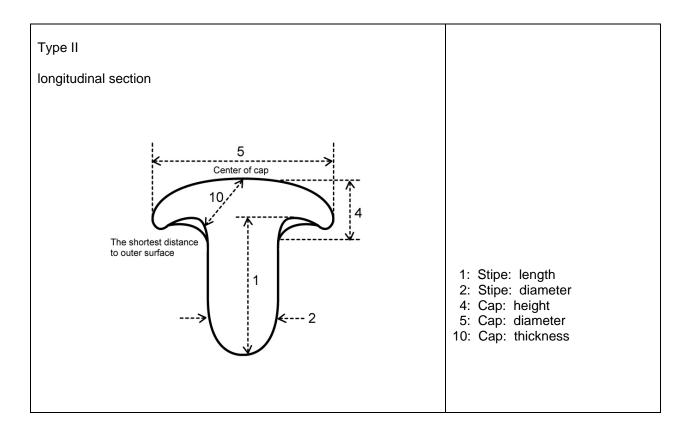
All characteristics of the stipe and the cap should be recorded at fully developed stage before discoloration or aging.

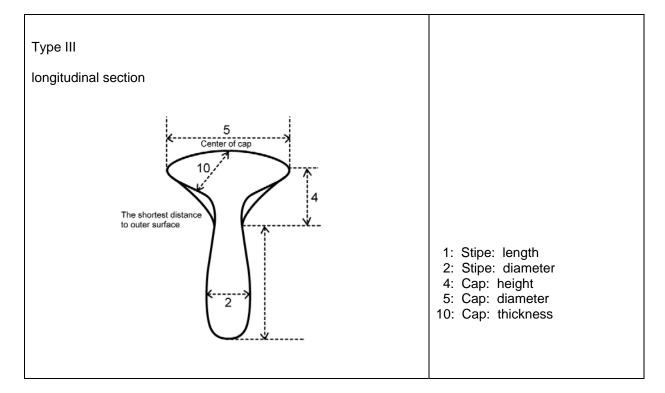
8.3 Explanations for individual characteristics

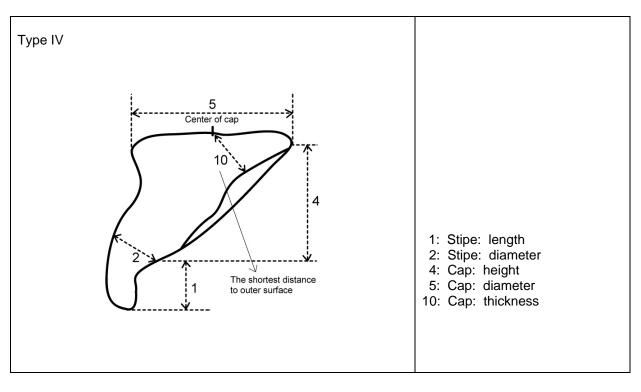
Ad. 1: Stipe: length
Ad. 2: Stipe: diameter
Ad. 4: Cap: height
Ad. 5: Cap: diameter
Ad. 10: Cap: thickness

The fruit bodies observed at harvest stage for the above characteristics should be cut longitudinally and observed as follows:

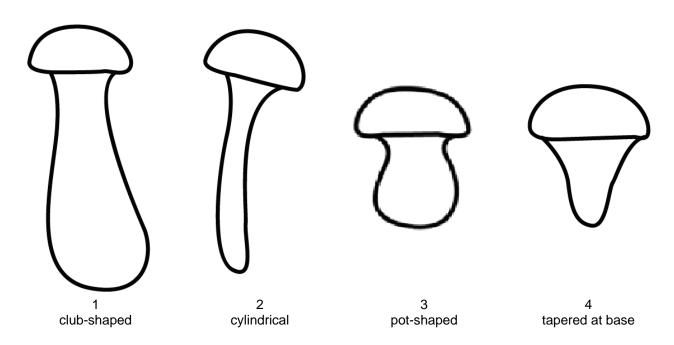




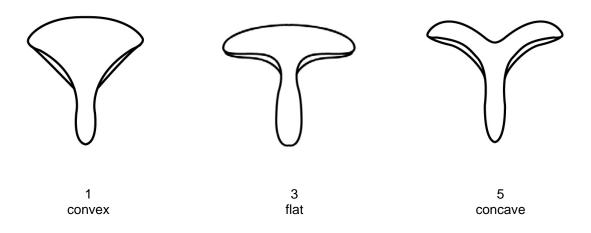




Ad. 3: Stipe: shape in longitudinal section



Ad. 7: Cap: curvature of upper surface in longitudinal section



Ad. 9: Cap: attachment

To observe major type of middle part of cluster.

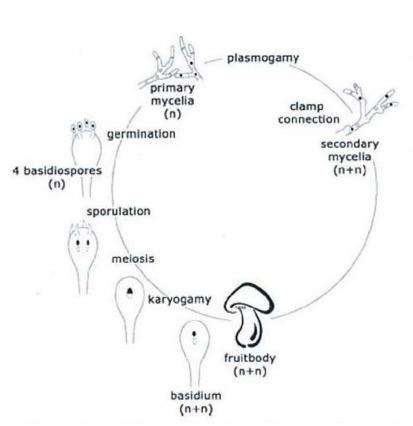


The usual pattern is for the stipe to attach in the center of the pileus, called central. If the attachment is at the margin of the pileus, it is called strongly offset. Any attachment intermediate between central and lateral is termed moderately offset.

Ad. 11: Number of basidiospores

Select vigorous fruit body before it releases basidiospore. Cut a part of the cap from the fruit body (one cap per replication) and place in the Petri-dish at room temperature. After one day, collect and determine the number of basidiospore.

Additional information: Life cycle of Pleurotus spp.



TG/PLEUR(proj.4) Oyster Mushroom, 2012-08-28 - 16 -

9. <u>Literature</u>

Deacon, J.W., 1997: Modern Mycology. Blackwell Science, 143pp.

Kang, S.W., 2004: Oyster Mushroom Cultivation. MushWorld, 48pp.

Largent, D. L. 1986: How to Identify Mushrooms to Genus I: Macroscopic Features, 36-38pp.

10. <u>Technical Questionnaire</u>

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
to be completed i	TECHNICAL QUESTION n connection with an applicat	
Subject of the Technical Questi	onnaire (please indicate the r	elevant genus or hybrid)
1.1.1 Genus name	Pleurotus ostreatus (Jacq.	P. Kumm.
1.1.2 Botanical name		[]
1.1.3 Common name	Hiratake; Oyster Mushroor	n
1.2.1 Genus name	Pleurotus eryngii (DC.) Qu	él.
1.2.2 Botanical name		[]
1.2.3 Common name	Enringi ; King Oyster Mush	nroom
1.3.1 Genus name	Pleurotus pulmonarius (Fr.) Quél.
1.3.2 Botanical name		[]
1.3.3 Common name	Lung Oyster Mushroom; U	suhiratake
2. Applicant		
Name		
Address		
Telephone No.		
Fax No.		
E-mail address		
Breeder (if different from applic	ant)	1
	L	

TG/PLEUR(proj.4) Oyster Mushroom, 2012-08-28 - 18 -

TECH	HNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
3.	Proposed denomination and breeder	s reference		
	Proposed denomination (if available)			
	Breeder's reference			

TG/PLEUR(proj.4) Oyster Mushroom, 2012-08-28 - 19 -

TECHNICAL QUESTIONNAIRE	Page {x} of {v}	Reference Number:

[#] 4.	Inforr	mation on	the breeding scheme and propagation of the variety			
	4.1	Breedin	ng scheme			
		Variety	resulting from:			
		4.1.1	Crossing			
			(a) controlled cross (please state parent varieties)	[]	
			(b) partially known cross (please state known parent variety(ies))	[]	
			(c) unknown cross	[1	
		4.1.2	Mutation (please state parent variety)	[]	
		4.1.3	Discovery and development (please state where and when discovered and how developed)	[1	
		4.1.4	Other (please provide details)	[]	
	4.2	Method o	of propagating the variety			

[#] Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE Page {x} of {y} Reference Number:

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

	Characteristics	Example Varieties	Note
5.1 (3)	Stipe: shape in longitudinal section		
	club-shaped	Aeryni(e), HOKUTO PLE-2go(e), KX-EG070(e)	1[]
	cylindrical	Chunchu2ho(o), Helios(o)	2[]
	pot-shaped	Maehyang(e)	3[]
	tapered at base	Mongblang(e)	4[]
5.2 (7)	Cap: curvature of upper surface in longitudinal section		
	convex	Nonggi 1ho(o)	1[]
	convex to flat		2[]
	flat	Aeryni(e), KX-EG079(e)	3[]
	flat to concave		4[]
	concave	Chunchu 2ho(o), Suhan(o)	5[]
5.3 (8)	Cap: color		
	white	Goni(o)	1[]
	medium brown	HOKUTO PLE-2go(e), Yeoreumneutari 1ho(p), 3014(p)	2[]
	dark brown	Hosan(p)	3[]
	medium grey	Chunchu 2ho(o), Fotios(o), Helios(o), HK 35(o), Ikaros(o), KX-EG070(e)	4[]
	dark grey	Manchuri(o), Nonggi 2-1ho(o)	5[]
5.4 (12)	Fruit body: cluster		
	absent	KX-EG070(e), Yeoreumneutari1ho(p)	1[]
	present	HK 35(o), KX-EG1001(e), Suhan(o)	9[]

TG/PLEUR(proj.4) Oyster Mushroom, 2012-08-28 - 21 -

TECHNICAL QUESTIONNA	Page {x} of {y}		Reference Number:					
6. Similar varieties and differences from these varieties								
Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.								
Denomination(s) of variety(ies) similar to your candidate variety	Characteristic your candidate from the similar	variety differs	Describe the expression of the characteristic(s) for the similar variety(ies)		Describe the expression of the characteristic(s) for your candidate variety			
Example	Cap: color		dark grey		medium grey			
Comments:								

TG/PLEUR(proj.4) Oyster Mushroom, 2012-08-28 - 22 -

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:

[#] 7.	Additional information which may help in the examination of the variety								
7.1		In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?							
	Yes	[]		No	[]			
	(If yes,	please p	rovide details)						
7.2	Are the	ere any s	pecial conditions fo	r growing	the	e vari	ety or conducting the examination?		
	Yes	[]		No	[]			
	(If yes,	please p	rovide details)						
7.3	Aversi	on line							
	Yes	[]		No	[]			
7.4	Optir	ptimum temperature for primodia formation							
7.5	Optir	timum temperature for fruit body formation							
7.6	Stipe	pe: color							
7.7	Other	ner information							
8.	Author	rization fo	r release						
	(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?								
		Yes	[]	1	No		[]		
	(b)	(b) Has such authorization been obtained?							
		Yes	[]	1	No		[]		
	If the a	answer to	(b) is yes, please a	attach a c	юру	of th	ne authorization.		

[#] Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TG/PLEUR(proj.4) Oyster Mushroom, 2012-08-28 - 23 -

TECHNICAL QUESTIONNAIRE				Page {x} of {y}	ımber:					
9.	9. Information on material to be examined or submitted for examination.									
	and dis	sease, chemical t	reatment (e.g	several characteristics of a g. growth retardants or pe phases of a tree, etc.						
underg	teristics Jone su	s of the variety, ur ch treatment, full o	nless the com details of the	dergone any treatment v petent authorities allow or treatment must be given. examined has been subject	request such In this respec	treatment. If the	ne material has			
	(a)	Microorganisms (e.g. virus, ba		Yes []	No []				
	(b)	Chemical treatme	ent (e.g. grow	th retardant, pesticide)		Yes []	No []			
	(c)	Tissue culture				Yes []	No []			
	(d)	Other factors				Yes []	No []			
	Please provide details for where you have indicated "yes".									
10.	. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:									
	Applicant's name									
	Signatu	ure			Date					

[End of document]