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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**TECHNICAL WORKING PARTY
FOR
AGRICULTURAL CROPS**

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**DRAFT TEST GUIDELINES FOR WHITE CLOVER
DOCUMENT TG/38/7 (PROJ. 1)**

Document prepared by experts from the United Kingdom

The attached document TG/38/7(proj.1) already incorporates the standard wording of document TGP/7.2, which was adopted by the Technical Committee at its thirty-eighth session in April 2002, and includes some additional standard wording from document TGP/7.1 Draft 1, also agreed at that session.

[Document TG/38/7(proj.1) follows]



TG/38/7(proj.1)

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

WHITECLOVER *
(Trifolium repens L.) *

GUIDELINES
FOR THE CONDUCT OF TESTS
FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names: *

Latin	English	French	German	Spanish
<i>Trifolium repens L.</i>	Whiteclover	Trèfle blanc	Weissklee	Trébol blanco

ASSOCIATED DOCUMENTS

These guidelines should be read in conjunction with document TG/1/3, "General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants" (hereinafter referred to as 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.]

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1. SubjectoftheseGuidelines

1.1 TheseTestGuidelinesapplytoallvarietiesof *Trifoliumrepens* L.

2. MaterialRequired

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 seed.

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

1.0kg.

2.4 The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should be stated by the applicant.

2.5 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.6 The plant 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. MethodofExamination

3.1 *DurationofTests*

The minimum duration of tests should normally be two independent growing cycles.

3.2 *TestingPlace*

The tests should normally be conducted at one place. If any characteristics of the variety, which are relevant for the examination of DUS, cannot be seen at that place, the variety may be tested at an additional place.

3.3 *ConditionsforConductingtheExamination*

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.

3.3.1 Type of observation –visual or measurement

The recommended method of observing the characteristic is indicated by the following key in the second column of the Table of Characteristics:

MS: measurement of a number of individual plants or parts of plants

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

VS: visual assessment by observation of individual plants or parts of plants

3.3.2 Type of plot for observation

The recommended type of plot in which to observe the characteristic is indicated by the following key in the second column of the Table of Characteristics:

A: spaced plant

B: row plot

C: special test

3.4 Test Design

3.4.1 General

The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.4.2 Plot design

Each test should be designed to result in a total of, at least 60 spaced plants and 10 meters of row plot.

Plots with single spaced plants: Each test should consist of 60 single spaced plants per variety arranged in 3, 4, 5 or 6 replicates, i.e. plots of 20, 15, 12 or 10 plants

Row plots: Each test which includes row plots should consist of at least 10 meters of row arranged in two replicates, each of 5 meters. The density of sowing should be such that about 200 plants per meter should be obtained.

3.5 Number of Plants/Parts of Plants to be Examined

Unless otherwise indicated, all observations determined by measuring or counting should be made on 60 plants or part-stalks from each of 60 plants.

3.6 Additional Tests

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

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

4.1.1.1 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.

4.1.1.2 Characteristics should be measured so that a mean value per plot can be obtained: from these data a standard deviation per variety can be derived and the data submitted to a 'two-way' analysis of variance. The significance of measured differences should be taken into account for assessing distinctness and the preparation of descriptions.

4.1.2 Consistent Differences

The minimum duration of tests recommended in section 3.1 reflects, in general, the need to ensure that any differences in a characteristic are sufficiently consistent.

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.

4.2 *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 The assessment of uniformity for cross-pollinated varieties should be according to the recommendations in the General Introduction.

4.2.3 For the assessment of uniformity of a variety, the standard deviation of the mean value for each characteristic should be compared with the mean of the standard deviations of comparable varieties using a recognized statistical technique.

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 tested, either by growing a further generation, or by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the previous 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 is 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 others 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 trials so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Leaf: size of median leaflet (characteristic 13)
- (b) Leaf: Intensity of white marks (characteristic 4)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. Introduction to the Table of Characteristics

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*

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.

6.3 *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.

6.5 *Legend*

(*) Asterisked characteristic –see Section 6.1.2

(QL) Qualitative characteristic –see Section 6.3

(QN) Quantitative characteristic –see Section 6.3

(PQ) Pseudo-Qualitative characteristic –see Section 6.3

(+) See Explanations on the Table of Characteristics in Chapter 8.

MS }
VG } Type of observation –see Section 3.3.1
VS }

A }
B } Type of plot for observation –see Section 3.3.2
C }

7. TableofCharacteristics/Tableaudecaractères/Merkmalstabelle/Tabladecharacteres

Char. No.	Methodof Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
(1) (+)	A VS	Plant:tendencyto forminflorescences without vernalization	Plante:tendanceà formerdes inflorescences	Pflanze:Neigung zurBildungvon Blütenständen	Planta:tendenciaa formar inflorescencias		
		absentorveryweak	nulleoutrèsfaible	fehlendoderse hr gering	ausenteomuydébil	Barbian	1
		weak	faible	gering	débil	Aran	3
		medium	moyenne	mittel	media	Milkanova	5
		strong	forte	stark	fuerte	LunedeMai	7
		verystrong	trèsforte	sehrstark	muyfuerte	Tivoli	9
2. (+)	A VS	Plant:intensityof greencolor	Plante:intensitéde lacouleurverte	Pflanze:Intensität derGrünfärbung	Planta:intensidad delcolorverde		
		light	claire	hell	claro	Avoca	3
		medium	moyenne	mittel	medio	Milkanova	5
		dark	foncée	dunkel	oscuro	Brindisi	7
3. (+)	C	Plant:proportionof plantswithcyanid glucoside	Plante:proportion deplantesà glucosides cyanogènes	Pflanze:Anteil Pflanzenmit Cyanglukosid	Planta:proporción deplantascon glucosidos cianogenéticos		
		absentorverylow	absenteoutrèsfaible	fehlendodersehr gering	ausenteomuybaja	Pertina	1
		low	faible	gering	baja	Barbian	3
		medium	moyenne	mittel	media	GrasslandsTahora	5
		high	élevée	stark	alta	Avoca	7
		veryhigh	trèsélevée	sehrstark	muyalta	GrasslandsPitau	9

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
4. (* (+)	A VS	Plant:intensity of white leaf marks	Plante:intensité des marques foliaires blanches	Pflanze: Intensität der weißen Blattzeichnung	Planta: intensidad de las marcas foliares blancas		
		absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Steinacher Weißklee	1
		weak	faible	gering	débil		3
		medium	moyenne	mittel	media	Asterix	5
		strong	forte	stark	fuerte		7
		very strong	très forte	sehr stark	muy fuerte	Haifa	9
5. (* (+)	A MS	Plant: time of flowering	Plante: époque de floraison	Pflanze: Zeitpunkt der Blüte	Planta: época de la floración		
		very early	très précoce	sehr früh	muy precoz	Haifa	1
		early	précoce	früh	precoz	Chieftain	3
		medium	moyenne	mittel	media	Grasslands Huia	5
		late	tardive	spät	tardía	Tivoli	7
		very late	très tardive	sehr spät	muy tardía	Regal	9
6.	A MS	Plant: natural height	Plante: hauteur naturelle	Pflanze: natürliche Höhe	Planta: altura		
		short	courte	niedrig	corta	Kent Wild White	3
		medium	moyenne	mittel	media	Pertina	5
		tall	longue	hoch	larga	Milkanova	7
7.	A MS	Plant: width	Plante: largeur	Pflanze: Breite	Planta: anchura		
		narrow	étroite	schmal	estrecha	Asterix	3
		medium	moyenne	mittel	media	Regal	5
		broad	large	breit	ancha	Aran	7

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
8.	A	Stem: thickness of stolon	Tige: grosseur du stolon	Stengel: Ausläuferdicke	Tallo: grosordel estolón		
(+)	MS						
		verythin	trèsfin	sehrdünn	muydelgado	KentWildWhite	1
		thin	fin	dünn	delgado	Barbian	3
		medium	moyen	mittel	medio	GrasslandsHuia	5
		thick	gros	dick	grueso	Kersey	7
		verythick	trèsgros	sehrdick	muygrueso	Aran	9
9.	A	Leaf: thickness of petiole	Feuille: grosseur du pétiole	Blatt: Dickedes Blattstiels	Hoja: grosordel pecíolo		
(+)	MS						
		verythin	trèsfin	sehrdünn	muydelgado	KentWildWhite	1
		thin	fin	dünn	delgado	Barbian	3
		medium	moyen	mittel	medio	Avoca	5
		thick	gros	dick	grueso	Milkanova	7
		verythick	trèsgros	sehrdick	muygrueso	Regal	9
10.	A	Leaf: length of petiole	Feuille: longueur du pétiole	Blatt: Längedes Blattstiels	Hoja: longituddel pecíolo		
(+)	MS						
		<u>short</u>	courte	kurz	corta	<u>Asterix</u>	<u>3</u>
		<u>medium</u>	moyenne	mittel	media	<u>GrasslandsHuia</u>	<u>5</u>
		long	longue	lang	larga	Chieftain	7
11.	A	Leaf: length of median leaflet	Feuille: longueur de la foliole médiane	Blatt: Längedes mittleren Fiederblatts	Hoja: longituddel folíolo central		
(*)							
(+)	MS						
		veryshort	trèscourte	sehrkurz	muycorta	KentWildWhite	1
		short	courte	kurz	corta	Barbian	3
		medium	moyenne	mittel	media	Avoca	5
		long	longue	lang	larga	GrasslandsPitau	7
		verylong	trèslongue	sehrlang	muylarga	Aran	9

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielsorten Variedades ejemplo	Note/ Nota
12. (* (+)	A MS	Leaf: width of median leaflet	Feuille: largeur de la foliole médiane	Blatt: Breitedes mittleren Fieder - blatts	Hoja: anchura del folíolo central		
		very narrow	très étroite	sehr schmal	muy estrecha	Kent Wild White	1
		narrow	étroite	schmal	estrecha	Barbian	3
		medium	moyenne	mittel	media	Grasslands Huia	5
		broad	large	breit	ancha	Grasslands Pitau	7
		very broad	très large	sehr breit	muy ancha	Aran	9
13 (* (+)	A MS	Leaf: size of median leaflet	Feuille: taille de la foliole médiane	Blatt: Großedes mittleren Fieder - blatts	Hoja: tamaño del folíolo central		
		very small	très petit	sehr klein	muy pequeño	Kent Wild White	1
		small	petit	klein	pequeño	Rivendel	3
		medium	moyen	mittel	medio	Pertina	5
		large	grand	groß	grande	Grasslands Pitau	7
		very large	très grand	sehr groß	muy grande	Aran	9
14. (* (+)	A MS	Leaf: ratio of length to width of median leaflet	Feuille: rapport longueur/largeur de la foliole latérale	Blatt: Verhältnis Länge/Breitedes mittleren Fiederblatts	Hoja: relación longitud/anchura del folíolo central		
		small	petit	klein	pequeño	Donna	3
		medium	moyen	mittel	medio	Barbian	5
		large	grand	groß	grande	Rivendel	7
15.	A MS	Flower: length of peduncle	Fleur: longueur du pédoncule	Blüte: Länge des Blütenstands - stiels	Flor: longitud del pedúnculo		
		short	court	kurz	corto	Kent Wild White	3
		medium	moyen	mittel	medio	Grasslands Huia	5
		long	long	lang	alto	Aran	7

Char. No.	Method of Examination	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
16.	A	Plant: number of flowerheads	Plante: nombre d'inflorescences	Pflanze: Anzahl Blütenstände	Planta: número de cabezas florales		
	VS						
		small	petit	klein	pequeño	Regal	3
		medium	moyen	mittel	medio	Avoca	5
		large	grand	groß	grande	Milkanova	7

8. ExplanationsontheTableofCharacteristics

Ad.1: Plant:tendencytoforminflorescenceswithoutvernalization

The observation should be made before the period of verbalization. The number of flowerheadsproducedoneachplantsshouldbeassessedandscored.

Ad.2: Plant:intensityofgre encolor

The observation should be made in the vegetative phase by examination and scoring theoverallgreencoloroftheplant.

Ad.3: Plant:proportionofplantswithcyanidglucoside

GUIGNARD Test

Preparationofpicro -sodicpaper

1. A hot aqueou s solution of 1% picric acid is prepared, to which 10% of sodium carbonateisaddedaftercoolingdown.
2. StripsofWhatmannNo.1filterpaperaredippedintothesolutionandthenkeptslightly humid,protectedagainstlightandheat.

TestProcedure

1. Healthyleavesareselectedfromeachofsixtyplants,mashedindividuallyandputinto separatetesttubes.
2. Adropoftoluolisaddedtoeachtesttubeandastripofpicro -sodicpaperissecuredby thestopper,withthebaseofthepaperkeptappr oximately5mmabovetheleafmaterial.
3. Thetubesareplacedindarknessinawater -bathat27 -30°Cfor4 hours.
4. If there is HCN present the paper will change color from yellow to red. This color reactionisobservedandrecordedforeachofthe60 plants.

Ad.4: Plant:intensityofwhiteleafmarks

The observation should be made at beginning of flowering by examination and scoring of the plant as a whole. The presence of any type of white mark or the complete absenceofmarksisrecorded.

Ad.5: Plant:timeofflowering

Aplantisrecordedasfloweringwhenthreefloretsonthreeseparateflowerheadsare showingcolor.Theobservationshouldbemadeatleasttwiceweekly.

Ad.8: Stem:thicknessofstolon

After all the plants of each variety in a replicate have flowered, and within 1 –2 weeks after flowering, the longest healthily growing stolon should be selected from each plant for measurement.

The thickness (diameter) of the stolon should be measured at a point midway between the third and the fourth internode counted from the growing tip.

Ad.9,10:Leaf:thickness(9),andlength(10),ofpetiole

Time of measurement and selection of stolon as for characteristic 8.

The petiole of the third expanded leaf of the stolon, counted from the growing tip, should be measured at its widest point.

Ad.11,12:Leaf:length(11),width(12),ofmedianleaflet

Time of measurement and selection of stolon as for characteristics 8,9 and 10.

The median leaflet of the third expanded leaf from the growing tip of the stolon should be selected for measurement of its length and width.

Ad.13:Leaf:sizeofmedianleaflet

Calculated from the product of leaf: length(10) x leaf width(12).

Ad.14:Leaf:ratiooflengthtewidthofmedian leaflet

Calculated from the ratio of leaf: length(10) ÷ leaf width(12).

Ad.15:Flower:lengthofpeduncle

A mature flower taken from close to center of the plant is selected for measurement of its peduncle length.

Ad.16:Plant:numberofflowerheads

The number of flower heads per plant is assessed on each of the 60 plants of a variety at maturity, normally 30 days after the mean date of flowering of the variety.

9. Literature

10. TechnicalQuestionnaire

TECHNICALQUESTIONNAIRE	Page1of 6	ReferenceNumber:
		Applicationdate: (nottobefilledinbytheapplicant)
TECHNICALQUESTIONNAIRE tobecompletedinconnectionwithanapplicationforplantbreeders'rights		
1. SubjectoftheTechnicalQuestionnaire		
1.1 LatinName	<input type="text" value="Trifoliumrepens L."/>	
1.2 CommonName	<input type="text" value="WHITECLOVER"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
TelephoneNo.	<input type="text"/>	
FaxNo.	<input type="text"/>	
E-mailaddress	<input type="text"/>	
Breeder(ifdifferentfromapplicant)	<input type="text"/>	
3. Proposeddenominationand breeder'sreference		
Proposeddenomination (ifavailable)	<input type="text"/>	
Breeder'sreference	<input type="text"/>	

TECHNICALQUESTIONNAIRE	Page2of6	ReferenceNumber:
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4. Informationonthebreedingschemeandpropagationofthevariety

4.1 BreedingScheme

4.2 MethodofPropagatingtheVariety

5. Characteristics of the variety to be indicated (the number in brackets refers to the correspondingcharacteristicinTestGuidelines;pleasemarkthenotewhichbestcorresponds).

Characteristics	ExampleVarieties	Note
5.1 Plant:intensityofwhiteleafmarks (4)		
absentorveryweak	Steinacher,Weißklee	1[]
weak		3[]
medium	Asterix	5[]
strong		7[]
verystrong	Haifa	9[]

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Characteristics	ExampleVarieties	Note
5.2 Plant:timeofflowering (5)		
veryearly	Haifa	1[]
early	Chieftain	3[]
medium	GrasslandsHuia	5[]
late	Tivoli	7[]
verylate	Regal	9[]
5.3 Leaf:lengthof medianleaflet (11)		
veryshort	KentWildWhite	1[]
short	Barbian	3[]
medium	Avoca	5[]
long	GrasslandsPitau	7[]
verylong	Aran	9[]
5.4 Leaf:widthofmedianleaflet (12)		
verynarrow	KentWildWhite	1[]
narrow	Barbian	3[]
medium	GrasslandsHuia	5[]
broad	GrasslandsPitau	7[]
verybroad	Aran	9[]
5.5 Leaf:sizeofmedianleaflet (13)		
verysmall	KentWildWhite	1[]
small	Rivendel	3[]
medium	Pertina	5[]
large	GrasslandsPitau	7[]
very large	Aran	9[]

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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?

7.1.1 Resistance to pest and diseases

Yes No

(If yes, please provide details)

7.1.2 Other

Yes No

(If yes, please provide details)

7.2 Special conditions for the examination of the variety

7.2.1 Are there any special conditions for growing the variety or conducting the examination?

Yes No

7.2.2 If yes, please give details:

7.3 Other information

8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes No

(b) Has such authorization been obtained?

Yes No

If the answer to (b) is yes, please attach a copy of the authorization.

TECHNICALQUESTIONNAIRE	Page6of6	ReferenceNumber:
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9. I hereby declare that, to the best of my knowledge, the information provided in this form is incorrect:

Applicant's name

Signature

Date

[End of document]