



TG/288/1 Rev.

ORIGINAL: English

DATE: 2013-03-20 + 2017-04-05

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DIANELLA

UPOV Code: DIANE

Dianella Lam. ex Juss.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

Alternative Names:^{*}

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Dianella</i> Lam. ex Juss.	Flax-lily, Dianella	Dianella	Flachslilie, Dianella	Dianella

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.]

<u>TABLE OF CONTENTS</u>	<u>PAGE</u>
1. SUBJECT OF THESE TEST GUIDELINES.....	3
2. MATERIAL REQUIRED.....	3
3. METHOD OF EXAMINATION	3
3.1 NUMBER OF GROWING CYCLES	3
3.2 TESTING PLACE	3
3.3 CONDITIONS FOR CONDUCTING THE EXAMINATION	3
3.4 TEST DESIGN	3
3.5 ADDITIONAL TESTS.....	4
4. ASSESSMENT OF DISTINCTNESS, UNIFORMITY AND STABILITY	4
4.1 DISTINCTNESS	4
4.2 UNIFORMITY	5
4.3 STABILITY.....	5
5. GROUPING OF VARIETIES AND ORGANIZATION OF THE GROWING TRIAL.....	5
6. INTRODUCTION TO THE TABLE OF CHARACTERISTICS.....	6
6.1 CATEGORIES OF CHARACTERISTICS	6
6.2 STATES OF EXPRESSION AND CORRESPONDING NOTES.....	6
6.3 TYPES OF EXPRESSION	6
6.4 EXAMPLE VARIETIES.....	6
6.5 LEGEND	7
7. TABLE OF CHARACTERISTICS/TABLEAU DES CARACTERES/MERKMALSTABELLE/TABLA DE CARACTERES	8
8. EXPLANATIONS ON THE TABLE OF CHARACTERISTICS.....	13
8.1 EXPLANATIONS COVERING SEVERAL CHARACTERISTICS	13
8.2 EXPLANATIONS FOR INDIVIDUAL CHARACTERISTICS	13
9. LITERATURE	18
10. TECHNICAL QUESTIONNAIRE.....	19

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Dianella* Lam. ex Juss..

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 plants expressing relevant characteristics of the variety in the first growing cycle.

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

10 plants.

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

2.5 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. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be a single growing cycle.

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*

3.3.1 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.

3.3.2 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background. The color chart and version used should be specified in the variety description.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 10 plants.

3.4.2 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.

3.5 *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

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 Plants / Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 9 plants or parts taken from each of 9 plants and any other observations made on all plants in the test, disregarding any off-type plants.

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 plants or parts of plants

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

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.

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 of vegetatively propagated varieties, a population standard of 1% and an acceptance probability of at least 95 % should be applied. In the case of a sample size of 10 plants, 1 off-type is 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 plant 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) Leaf: glaucosity of upper side (characteristic 8)
- (b) Leaf: variegation (characteristic 9)
- (c) Leaf blade: shape (characteristic 14)
- (d) Leaf: spines on margin (characteristic 17)
- (e) Basal sheath: anthocyanin coloration (characteristic 22)

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. 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*

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.

6.5 *Legend*

- (*) 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

- (a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1
- (+) See Explanations on the Table of Characteristics in Chapter 8.2.

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

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota	
1. (*)	VG/ MG	Plant: height (excluding inflorescence)	Plante : hauteur (à l'exclusion de l'inflorescence)	Pflanze: Höhe (ohne Blütenstand)	Planta: altura (excluida la inflorescencia)		
QN	(a)	very short	très courte	sehr niedrig	muy corta	Dinky Di	1
		short	courte	niedrig	corta		3
		medium	moyenne	mittel	media	Little Devil	5
		tall	haute	hoch	alta	REV101	7
		very tall	très haute	sehr hoch	muy alta	Goddess	9
2. (*) (+)	VG	Plant: density	Plante : densité	Pflanze: Dichte	Planta: densidad		
QN	(a)	very sparse	très lâche	sehr locker	muy laxa		1
		sparse	lâche	locker	laxa	LHC1	3
		medium	moyenne	mittel	media	Rainbow	5
		dense	dense	dicht	densa	Little Devil	7
		very dense	très dense	sehr dicht	muy densa	Dinky Di	9
3. (+)	VG/ MG	Stem: internode length	Tige : longueur de l'entre-nœud	Stengel: Internodienlänge	Tallo: longitud del entrenudo		
QN	(a)	very short	très court	sehr kurz	muy corto	TAS300	1
		short	court	kurz	corto	TR20	3
		medium	moyen	mittel	medio		5
		long	long	lang	largo	Goddess	7
		very long	très long	sehr lang	muy largo		9
4. (*) (+)	VG	Leaf: attitude of basal third	Feuille : port du tiers basal	Blatt: Haltung des basalen Drittels	Hoja: porte del tercio basal		
QN	(b)	erect	dressé	aufrecht	erecto	Little Devil	1
		erect to semi-erect	dressé à demi-dressé	aufrecht bis halbaufrecht	erecto a semierecto	Rainbow	2
		semi-erect	demi-dressé	halbaufrecht	semierecto	TAS300	3
5. (*) (+)	VG	Leaf: curvature of upper third	Feuille : courbure du tiers supérieur	Blatt: Biegung des oberen Drittels	Hoja: curvatura del tercio superior		
QN	(b)	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	LHC1	1
		weak	faible	gering	débil	TAS300	3
		medium	moyenne	mittel	media	TAS100	5
		strong	forte	stark	fuerte	DT23	7
		very strong	très forte	sehr stark	muy fuerte		9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota	
6.	VG/ MS	Leaf: length	Feuille : longueur	Blatt: Länge	Hoja: longitud		
QN	(b)	short	courte	kurz	corta	DTN03	3
		medium	moyenne	mittel	media	Allyn-Citation	5
		long	longue	lang	larga		7
7.	VG/ MS	Leaf: width	Feuille : largeur	Blatt: Breite	Hoja: anchura		
QN	(b)	narrow	étroite	schmal	estrecha	Little Devil	3
		medium	moyenne	mittel	media	TAS100	5
		wide	large	breit	ancha	Goddess	7
8.	VG (* +)	Leaf: glaucosity of upper side	Feuille : glaucescence de la face supérieure	Blatt: Bereifung der Oberseite	Hoja: glaucescencia en el haz		
QN	(b)	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Goddess, TR20	1
		weak	faible	gering	débil	DT23	2
		medium	moyenne	mittel	media	Little Devil	3
		strong	forte	stark	fuerte	DR5000	4
9.	VG (* +)	Leaf: variegation	Feuille : panachure	Blatt: Panaschierung	Hoja: variegación		
QL	(b)	absent	absente	fehlend	ausente	Splice	1
		present	présente	vorhanden	presente	Rainbow	9
10.	VG (* +)	Leaf: main color of upper side	Feuille : couleur principale de la face supérieure	Blatt: Hauptfarbe der Oberseite	Hoja: color principal del haz		
PQ	(b)	yellow	jaune	gelb	amarillo	Rainbow	1
		yellow green	vert jaune	gelbgrün	verde amarillento	DCMP01	2
		light green	vert clair	hellgrün	verde claro	TR20	3
		medium green	vert moyen	mittelgrün	verde medio	DR 2006	4
		dark green	vert foncé	dunkelgrün	verde oscuro	TAS300	5
		blue green	vert bleu	blaugrün	verde azulado		6
		brown green	vert brun	braungrün	verde amarronado		7
11.	VG (* +)	Leaf: secondary color of upper side	Feuille : couleur secondaire de la face supérieure	Blatt: Sekundärfarbe der Oberseite	Hoja: color secundario del haz		
PQ	(b)	whitish	blanchâtre	weißlich	blanquecino	Border Silver	1
		whitish yellow	jaune blanchâtre	weißlich gelb	amarillo blanquecino	DarwinGold	2
		yellow	jaune	gelb	amarillo	Rainbow	3
		yellow green	vert jaune	gelbgrün	verde amarillento		4
		light green	vert clair	hellgrün	verde claro		5
		medium green	vert moyen	mittelgrün	verde medio		6
		dark green	vert foncé	dunkelgrün	verde oscuro		7
		blue green	vert bleu	blaugrün	verde azulado		8
		brown green	vert brun	braungrün	verde amarronado		9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
12.	VG	Leaf: distribution of secondary color on upper side	Feuille : répartition de la couleur secondaire sur la face supérieure	Blatt: Verteilung der Sekundärfarbe auf der Oberseite	Hoja: distribución del color secundario en el haz	
PQ	(b)	marginal	marginale	marginal	en el margen	1
		between margin and midrib	entre le bord et la nervure médiane	zwischen Rand und Mittelrippe	entre el margen y el nervio central	2
		midrib	nervure médiane	Mittelrippe	nervio central	3
13.	VG	Leaf: main color of lower side	Feuille : couleur principale de la face inférieure	Blatt: Hauptfarbe der Unterseite	Hoja: color principal del envés	
PQ	(b)	yellow	jaune	gelb	amarillo	Rainbow
		yellow green	vert jaune	gelbgrün	verde amarillento	DCMP01
		light green	vert clair	hellgrün	verde claro	TR20
		medium green	vert moyen	mittelgrün	verde medio	DR 2006
		dark green	vert foncé	dunkelgrün	verde oscuro	DTN03
		blue green	vert bleu	blaugrün	verde azulado	
		brown green	vert brun	braungrün	verde amarronado	
		grey green	vert gris	graugrün	verde grisáceo	TAS300
14.	VG	Leaf blade: shape	Limbe : forme	Blattspreite: Form	Limbo: forma	
	(*)					
	(+)					
PQ	(b)	ligulate	ligulé	zungenförmig	ligulado	Dinky Di
		linear	linéaire	linear	lineal	TAS300
		ensiform	ensiforme	schwertförmig	ensiforme	Border Silver
15.	VG	Leaf: shape of apex	Feuille : forme du sommet	Blatt: Form der Spitze	Hoja: forma del ápice	
	(*)					
	(+)					
PQ	(b)	acute	aigu	spitz	agudo	Dinky Di
		acuminate	acuminé	zugespitzt	acuminado	Goddess
		apiculate	apiculé	fein zugespitzt	apiculado	Rainbow
16.	VG	Leaf: profile in cross section	Feuille : profil en section transversale	Blatt: Profil im Querschnitt	Hoja: perfil en sección transversal	
	(+)					
QN	(b)	strongly concave	fortement concave	stark konkav	fuertemente cóncava	1
		moderately concave	modérément concave	mäßig konkav	moderadamente cóncava	2
		slightly concave	légèrement concave	leicht konkav	ligeramente cóncava	DP40
		flat	plat	flach	plano	4
		slightly convex	légèrement convexe	leicht konvex	ligeramente convexo	TR20
		moderately convex	modérément convexe	mäßig konvex	moderadamente convexo	Goddess
		strongly convex	fortement convexe	stark konvex	fuertemente convexo	DCMP01
		revolute	révoluté	zurückgerollt	revoluto	8

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
17. (*)	VG Leaf: spines on margin	Feuille : épines au bord	Blatt: Stacheln am Rand	Hoja: espinas en el margen		
QL (b)	absent	absentes	fehlend	ausentes	REV101	1
	present	présentes	vorhanden	presentes	Rainbow	9
18. (+)	VG Leaf: prominence of spines on margin	Feuille : netteté des épines au bord	Blatt: Ausprägung der Stacheln am Rand	Hoja: prominencia de las espinas en el margen		
QN (b)	weak	faible	gering	débil	Little Devil	1
	medium	moyenne	mittel	media	Rainbow	2
	strong	forte	stark	fuerte		3
19.	VG Leaf: color on margin	Feuille : couleur au bord	Blatt: Farbe am Rand	Hoja: color en el margen		
QL (b)	green	vert	grün	verde	Goddess	1
	red	rouge	rot	rojo	Rainbow	2
20. (*) (+)	VG Leaf midrib: spines on lower side	Nervure médiane de la feuille : épines sur la face inférieure	Mittelrippe des Blattes: Stacheln auf der Unterseite	Nervio central de la hoja: espinas en el envés		
QL (b)	absent	absentes	fehlend	ausente	REV101	1
	present	présentes	vorhanden	presente	Goddess	9
21. (+)	VG Leaf midrib: prominence of spines on lower side	Nervure médiane de la feuille : netteté des épines sur la face inférieure	Mittelrippe des Blattes: Ausprägung der Stacheln auf der Unterseite	Nervio central de la hoja: prominencia de las espinas en el envés		
QN (b)	weak	faible	gering	débil	DTN03	1
	medium	moyenne	mittel	media	Goddess	2
	strong	forte	stark	fuerte	DT23	3
22. (*) (+)	VG Basal sheath: anthocyanin coloration	Base de la gaine: pigmentation anthocyanique	Basale Blattscheide: Anthocyanfärbung:	Vaina basal: pigmentación antocianica		
PQ (b)	none	aucune	keine	ninguno	DBB03	1
	light red purple	rouge pourpre clair	hellrotpurpurn	púrpura rojizo claro	Goddess, Dinky Di	2
	medium red purple	rouge pourpre moyen	mittelrotpurpurn	púrpura rojizo medio	LHC1	3
	dark red purple	rouge pourpre foncé	dunkelrotpurpurn	púrpura rojizo oscuro	Little Devil, TAS300	4
	light red brown	rouge brune clair	hellrotbraun	marrón rojizo claro	REV101	5
	medium red brown	rouge brune moyen	mittelrotbraun	marrón rojizo medio		6
	dark red brown	rouge brune foncé	dunkelrotbraun	marrón rojizo oscuro	TR20	7
	brown	brune	braun	marrón		8
23. (+)	VG Inflorescence: position in relation to foliage	Inflorescence : position par rapport au feuillage	Blütenstand: Stellung im Vergleich zum Laub	Inflorescencia: posición en relación con follaje		
QN (c)	above	au-dessus	oberhalb	por encima	Little Devil	1
	same level	au même niveau	auf gleicher Höhe	al mismo nivel		2
	below	en dessous	unterhalb	por debajo	Border Silver	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
24.	VG	Flowering stem: color of middle third	Tige en floraison : couleur du tiers moyen	Blütentrieb: Farbe des mittleren Drittels	Tallo floral: color del tercio medio	
PQ	(c)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)	
25.	VG/MS	Flowering stem: length of flowering part	Tige en floraison : longueur de la partie en floraison	Blütentrieb: Länge des blühenden Teils	Tallo floral: longitud de la parte en floración	
QN	(c)	short	courte	kurz	corto	3
		medium	moyenne	mittel	medio	5
		long	longue	lang	largo	7
26.	VG	Inflorescence: density of flowers	Inflorescence : densité des fleurs	Blütenstand: Dichte der Blüten	Inflorescencia: densidad de flores	
QN	(c)	sparse	lâche	locker	laxa	3
		medium	moyenne	mittel	media	5
		dense	dense	dicht	densa	7
27.	VG/MG	Perianth: diameter	Périanthe : diamètre	Blütenhülle: Durchmesser	Perianto: diámetro	
QN	(c)	small	petit	klein	pequeño	1
		medium	moyen	mittel	medio	2
		large	grand	groß	grande	3
28.	VG	Perianth: color	Périanthe : couleur	Blütenhülle: Farbe	Perianto: color	
PQ	(c)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)	
29.	VG	Anther: color	Anthère : couleur	Staubblatt: Farbe	Antera: color	
PQ	(c)	yellow	jaune	gelb	amarillo	Border Silver 1
		orange	orange	orange	naranja	Splice 2
		brown	brune	braun	marrón	Goddess 3
30.	VG	Immature fruit: color	Fruit immature : couleur	Unreife Frucht: Farbe	Fruto no maduro: color	
PQ	(c)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)	
31.	VG	Mature fruit: color	Fruit mûr : couleur	Reife Frucht: Farbe	Fruto maduro: color	
PQ	(c)	RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)	

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) The assessment of plant, shoot and stem characteristics should be carried out towards the end of active vegetative growth.
- (b) Observations on the leaf should be made on the youngest fully expanded leaves on either side of young leaves. Leaf colors for glaucous varieties should be observed with the waxy coating removed by rubbing. The main color is the color with the largest surface area. In cases where the areas of the main and secondary color are too similar to reliably decide which color has the largest area, the darkest color is considered to be the main color. Upper side is the leaf surface facing towards the axis, adaxial. Lower side is the leaf surface facing away from the axis, abaxial.
- (c) Observations on the inflorescence, flower and fruit should be made on the main flower inflorescence.

8.2 *Explanations for individual characteristics*

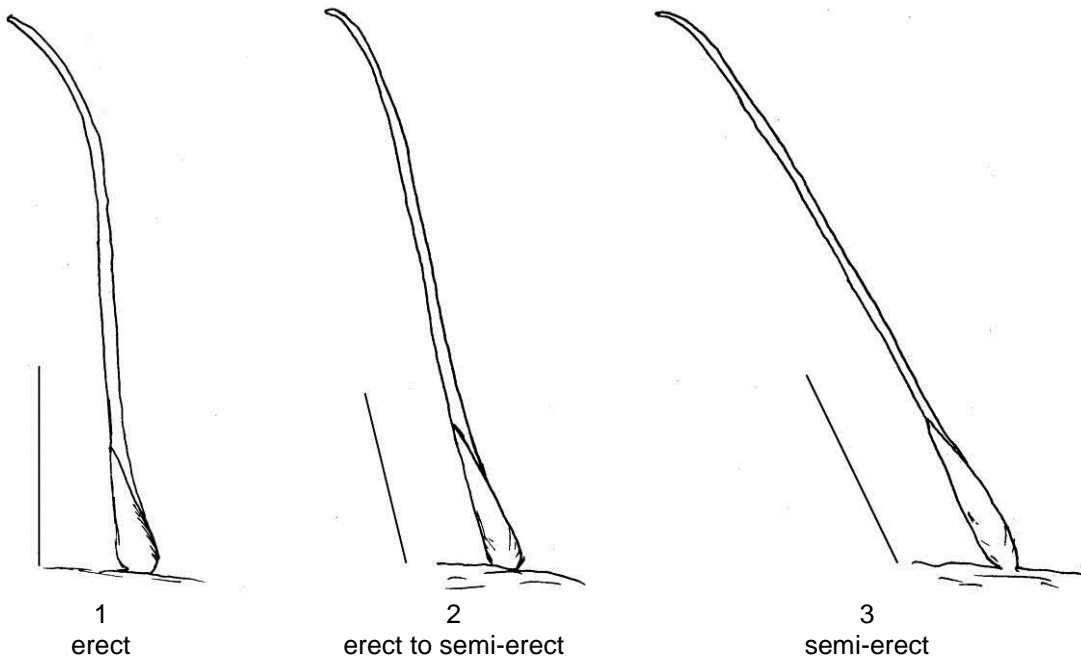
Ad. 2: Plant: density

The plant density is observed as the overall density of foliage.

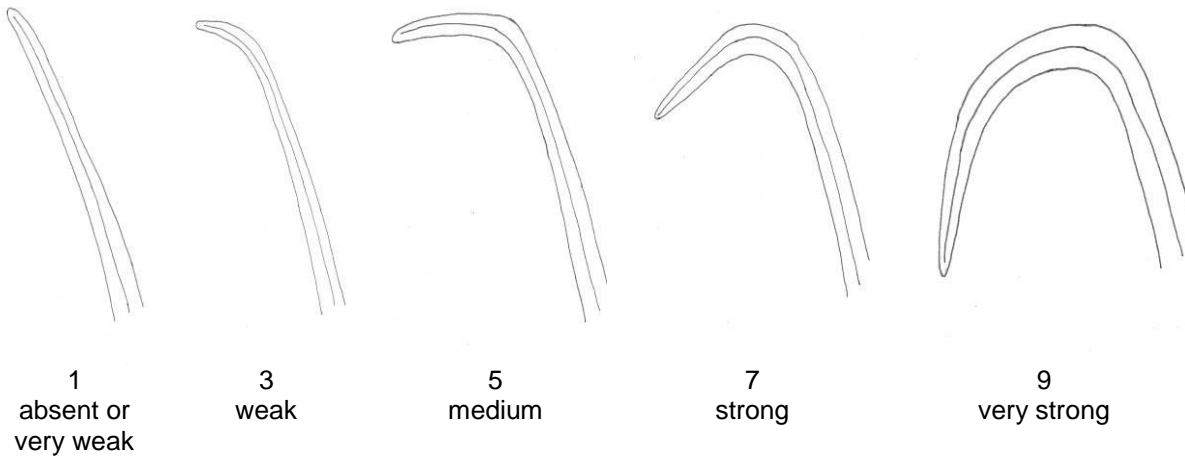
Ad. 3: Stem: internode length



Ad. 4: Leaf: attitude of basal third



Ad. 5: Leaf: curvature of upper third



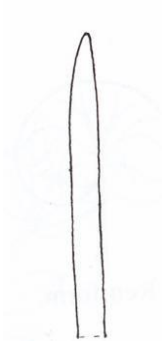
Ad. 8: Leaf: glaucosity of upper side

The glaucosity is the waxy layer covering the leaf surface and generally gives a leaf a bluish or whitish coloration. The layer can be removed by rubbing. It should be observed on the upper side of the middle third of the leaf.

Ad. 11: Leaf: secondary color of upper side

The secondary color is determined as the color with the second largest surface area, usually observed as a defined pattern on the upper side of a leaf. For varieties with glaucosity, the waxy layer is removed.

Ad. 14: Leaf blade: shape



1

ligulate

lateral margins parallel along most of length, tapering towards apex, strap shaped.



2

linear

lateral margins parallel along entire length to apex

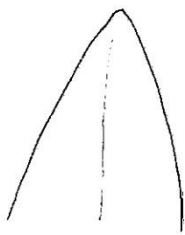


3

ensiform

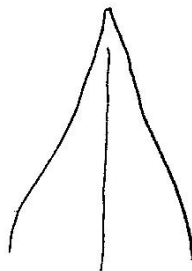
widest point above the middle, sword shaped

Ad. 15: Leaf: shape of apex



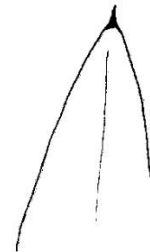
1

acute



2

acuminate



3

apiculate

Ad. 16: Leaf: profile in cross section

To be observed on the middle third of fully expanded leaf.



1

strongly concave



2

moderately concave



3

slightly concave



4

flat



5

slightly convex



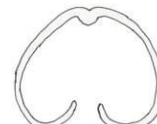
6

moderately convex



7

strongly convex



8

revolute

Ad.18: Leaf: prominence of spines on margin

Ad. 20: Leaf midrib: spines on lower side

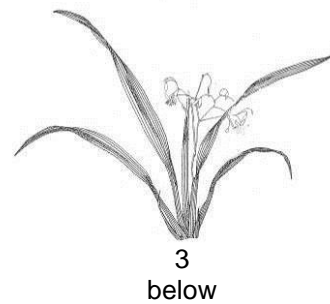
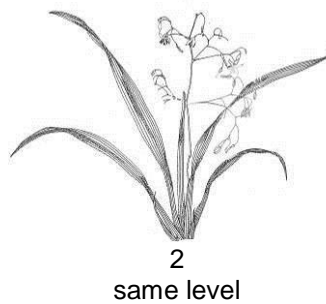
Ad. 21: Leaf midrib: prominence of spines on lower side

Prominence of spines is assessed visually and by touch. If spines can be seen easily with the naked eye at arm's length then prominence is very strong. If spines cannot be seen but are felt by running the index finger backwards along the leaf then prominence is very weak.

Ad. 22: Basal sheath: anthocyanin coloration



Ad. 23: Inflorescence: position in relation to foliage



Ad. 30: Immature fruit: color

Assessed when fruit has reached full size.

Ad. 31: Mature fruit: color

Assessed when fruit has fully colored and before deterioration.

9. Literature

Henderson R.J.F., 1987: Flora of Australia vol 45. Australian Government Publishing Service. Canberra, Australian Capital Territory, AU, pp. 194 to 225.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1 Genus		
1.1 Botanical name	<input type="text" value="Dianella Lam. ex Juss."/>	
1.2 Common name	<input type="text" value="Flax-lily, Dianella"/>	
1.2 Species (please indicate)	<input type="text"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
Telephone No.	<input type="text"/>	
Fax No.	<input type="text"/>	
E-mail address	<input type="text"/>	
Breeder (if different from applicant)	<input type="text"/>	
3. Proposed denomination and breeder's reference		
Proposed denomination (if available)	<input type="text"/>	
Breeder's reference	<input type="text"/>	

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

#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross []
(please state parent varieties)

(.....) x (.....)
female parent male parent

(b) partially known cross []
(please state known parent variety(ies))

(.....) x (.....)
female parent male parent

(c) unknown cross []

4.1.2 Mutation []
(please state parent variety)

.....

4.1.3 Discovery and development []
(please state where and when discovered and how developed)

.....

4.1.4 Other []
(please provide details)

.....

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:
-------------------------	-----------------	-------------------

4.2 Method of propagating the variety

4.2.1 Vegetative propagation

- (a) cuttings []
- (b) division []
- (c) *in vitro* propagation []
- (d) other (state method) []

[]

4.2.2 Other []
(please provide details)

[]

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 Leaf: glaucosity of upper side (8)		
absent or very weak	Goddess, TR20	1 []
weak	DT23	2 []
medium	Little Devil	3 []
strong	DR5000	4 []
5.2 Leaf: variegation (9)		
absent	Splice	1 []
present	Rainbow	9 []
5.3 Leaf blade: shape (14)		
ligulate	Dinky Di	1 []
linear	TAS300	2 []
ensiform	Border Silver	3 []
5.4 Leaf: spines on margin (17)		
absent	REV101	1 []
present	Rainbow	9 []
5.5 Basal sheath: anthocyanin coloration (22)		
none	DBB03	1 []
light red purple	Goddess, Dinky Di	2 []
medium red purple	LHC1	3 []
dark red purple	Little Devil, TAS300	4 []
light red brown	REV101	5 []
medium red brown		6 []
dark red brown	TR20	7 []
brown		8 []

TECHNICAL QUESTIONNAIRE	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(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>	<i>Plant: density</i>	<i>sparse</i>	<i>dense</i>

Comments:

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 provide details)

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

Yes [] No []

(If yes, please provide details)

7.3 Other information

A representative color image of the variety should accompany the Technical Questionnaire.

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.

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

9. Information on plant material to be examined or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 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 the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | |
|---|---------|--------|
| (a) Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) Chemical treatment (e.g. growth 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

Signature

Date

[End of document]