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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

GAURA *

UPOV Code: GAURA

Gaura L.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

prepared by an expert from the United Kingdom

to be considered by the Enlarged Editorial Committee at its meeting to be held in Geneva, Switzerland, on January 7, 2010

Alternative Names:*

Botanical name	*English*	*French*	*German*	*Spanish*
Gaura L.	Gaura	Gaura	Prachtkerze	Gaura

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.]

TABLE OF CONTENTS PAGE

1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Gaura* L. of the family *Onagraceae.*

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 young plants capable of expressing all relevant characteristics of the variety during the first growing cycle.

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

10 young 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.

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 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, all observations should be made on 10 plants or parts taken from each of 10 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

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.

4.2 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 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 tested, either by growing a further generation, or by testing a new 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 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: variegation (characteristic 17)
(b) Leaf: anthocyanin coloration (characteristic 21)
(c) Petal: main color of inner surface (characteristic 32), with the following groups:
    Gr. 1: white
    Gr. 2: light pink
    Gr. 3: medium pink
    Gr. 4: dark pink
    Gr. 5: red
(d) Petal: secondary color of inner surface (excluding veins) (characteristic 33), with the following groups
    Gr. 1: white
    Gr. 2: light pink
    Gr. 3: medium pink
    Gr. 4: dark pink
    Gr. 5: red
(e) Petal: conspicuousness of veins (characteristic 35)

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 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

(a)-(h) 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. (*)		**Plant: height**	**Plante : hauteur**	**Pflanze: Höhe**	**Planta: altura**		
QN	**(a)**	short	courte	niedrig	baja	Gausudre	3
		medium	moyenne	mittel	media	Redgapi	5
		tall	haute	hoch	alta	Gaudwwhi	7
2. (*)		**Plant: width**	**Plante : largeur**	**Pflanze: Breite**	**Planta: anchura**		
QN	**(a)**	narrow	étroite	schmal	estrecha	Gausudre	3
		medium	moyenne	mittel	media	Passionate Blush	5
		broad	large	breit	ancha	Gaudwwhi	7
3. (*) (+)		**Plant: height/width ratio**	**Plante : rapport hauteur/largeur**	**Pflanze: Verhältnis Höhe/Breite**	**Planta: relación altura/anchura**		
QN	**(a)**	moderately compressed	modérément comprimé	mäßig zusammengedrückt	moderadamente comprimida	Gausudre	3
		medium	moyen	mittel	media	Gaudwwhi	5
		moderately elongated	modérément allongé	mäßig lang ausgezogen	moderadamente alargada		7
4. (+)		**Plant: density**	**Plante : densité**	**Pflanze: Dichte**	**Planta: densidad**		
QN	**(a)**	sparse	faible	locker	dispersa		3
		medium	moyenne	mittel	media	Gaudwwhi	5
		dense	dense	dicht	densa	Gausudre	7
5. (+)		**Plant: floriferousness**	**Plante : floribondité**	**Pflanze: Blüten-reichhaltigkeit**	**Planta: capacidad florífera**		
QN	**(a)**	low	faible	gering	baja	Gausudre	3
		medium	moyenne	mittel	media	Gautalwhi	5
		high	élévée	groß	alta	Passionate Pink	7

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6.		**Plant: attitude of stems**	**Plante : port des tiges**	**Pflanze: Haltung der Triebe**	**Planta: porte de los tallos**		
QN	**(b)**	upright	dressées	aufrecht	erguido		1
		semi upright	demi-dressées	halbaufrecht	semierguido	Redgapi	3
		intermediate	intermédaires	intermediär	intermedio	Gaudwwhi	5
		moderately spreading	modérément étalées	mäßig auseinanderfallend	moderadamente patente	The Bride	7
		strongly spreading	fortement étalées	stark auseinander-fallend	fuertemente patente		9
7. **(+)**		**Stem: number of branches**	**Tige : nombre de ramifications**	**Trieb: Anzahl Zweige**	**Tallo: número de ramas**		
QN	**(b)**	few	petit	gering	bajo	Gaudros	3
		medium	moyen	mittel	medio	Redgapi	5
		many	grand	groß	alto	Passionate Rainbow	7
8.		**Stem: number of leaves**	**Tige : nombre de feuilles**	**Trieb: Anzahl Blätter**	**Tallo: número de hojas**		
QN	**(b)**	few	petit	gering	bajo	Gaudros	3
		medium	moyen	mittel	medio	Gaudwwhi	5
		many	grand	groß	alto	Passionate Rainbow	7
9.		**Stem: distribution of leaves**	**Tige : répartition des feuilles**	**Trieb: Verteilung der Blätter**	**Tallo: distribución de las hojas**		
QN	**(b)**	basal quarter	quart basal	basales Viertel	en el cuarto basal	Gaudros	1
		basal half	moitié basale	basale Hälfte	en la mitad basal	Gaudwwhi	2
		basal three quarters	trois quarts basaux	basale drei Viertel	en los tres cuartos basales	Passionate Rainbow	3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
10. (*) (+)		**Young shoot: anthocyanin coloration**	**Jeune rameau : pigmentation anthocyanique**	**Junger Trieb: Anthocyanfärbung**	**Retoño: pigmentación antociánica**		
QN	**(c)**	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Gaudwwhi	1
		weak	faible	gering	débil	Gaudros	3
		medium	moyenne	mittel	media	Passionate Pink	5
		strong	forte	stark	fuerte	Gausudre	7
11. (*)		**Leaf: length**	**Feuille : longueur**	**Blatt: Länge**	**Hoja: longitud**		
QN	**(d)**	short	courte	kurz	corta	Gaudros	3
		medium	moyenne	mittel	media	Gaudwwhi	5
		long	longue	lang	larga	Passionate Rainbow	7
12. (*)		**Leaf: width**	**Feuille : largeur**	**Blatt: Breite**	**Hoja: anchura**		
QN	**(d)**	narrow	étroite	schmal	estrecha	Redgapi	3
		medium	moyenne	mittel	media	Gausudre	5
		broad	large	breit	ancha	Gaudwwhi	7
13. (*) (+)		**Leaf: length/width ratio**	**Feuille : rapport longueur/largeur**	**Blatt: Verhältnis Länge/Breite**	**Hoja: relación longitud/anchura**		
QN	**(d)**	slightly elongated	légèrement allongée	leicht lang ausgezogen	ligeramente alargada	Gaudwwhi	3
		moderately elongated	modérément allongée	mäßig lang ausgezogen	moderadamente alargada	Gaudros	5
		strongly elongated	fortement allongée	stark lang ausgezogen	fuertemente alargada	Redgapi	7
14.		**Leaf: position of maximum width**	**Feuille : position de la largeur maximale**	**Blatt: Position der größten Breite**	**Hoja: posición de la anchura máxima**		
PQ	**(d)**	towards base	vers la base	zur Basis hin	hacia la base		1
		at mid point	au milieu	in der Mitte	en el medio	Gaudros	2
		towards apex	vers le sommet	zur Spitze hin	hacia el ápice	Baltincite	3

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
15.		**Leaf: undulation of margin**	**Feuille : ondulation du bord**	**Blatt: Randwellung**	**Hoja: ondulación del borde**		
QN	**(d)**	absent or weak	absente ou faible	fehlend oder gering	ausente o débil	Passionate Pink	1
		moderate	moyenne	mittel	moderada	Gaudwwhi	2
		strong	forte	stark	fuerte	The Bride	3
16. **(*)**		**Leaf: intensity of green color**	**Feuille : intensité de la couleur verte**	**Blatt: Intensität der Grünfärbung**	**Hoja: intensidad del color verde**		
QN	**(d)**	light	faible	hell	claro		3
	(e)	medium	moyenne	mittel	medio	Redgapi	5
		dark	forte	dunkel	oscuro	Gaudwwhi	7
17. **(*)**		**Leaf: variegation**	**Feuille : panachure**	**Blatt: Panaschierung**	**Hoja: variegación**		
QL	**(d)**	absent	absente	fehlend	ausente	Gaudwwhi	1
	(e)	present	présente	vorhanden	presente	Passionate Rainbow	9
18. **(*)** **(+)**		**Leaf: distribution of variegation**	**Feuille : répartition de la panachure**	**Blatt: Verteilung der Panaschierung**	**Hoja: distribución de la variegación**		
PQ	**(d)**	marginal	marginale	am Rand	marginal	Passionate Rainbow	1
	(e)	central	centrale	in der Mitte	central	Jo Adela	2
		scattered irregular blotches	taches irrégulières diffuses	verstreute unregelmäßige Flecken	manchas irregulares y dispersas		3
		scattered fine flecks	panachure fine diffuse	verstreute dünne Flecken	manchitas dispersas		4
19.		**Leaf: area covered by variegation**	**Feuille : surface couverte par la panachure**	**Blatt: Zone mit Panaschierung**	**Hoja: área cubierta por la variegación**		
QN	**(d)**	small	petite	klein	pequeña	Passionate Rainbow	3
	(e)	medium	moyenne	mittel	media		5
		large	grande	groß	grande		7

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
20. (*)		**Leaf: color of variegation**	**Feuille : couleur de la panachure**	**Blatt: Farbe der Panaschierung**	**Hoja: color de la variegación**		
PQ	**(d)**	white	blanche	weiß	blanco		1
	(e)	cream	crème	cremefarben	crema	Passionate Rainbow	2
		yellow	jaune	gelb	amarillo	Corries Gold	3
		yellow green	vert-jaune	gelbgrün	amarillo verde	Jo Adela	4
21. (*)		**Leaf: anthocyanin coloration**	**Feuille : pigmentation anthocyanique**	**Blatt: Anthocyanfärbung**	**Hoja: pigmentación antociánica**		
QN	**(d)**	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Gaudwwhi	1
	(e)	weak	faible	gering	débil		3
		medium	moyenne	mittel	media	Passionate Pink	5
		strong	forte	stark	fuerte	Passionate Rainbow	7
22. (*) (+)		**Leaf: distribution of anthocyanin coloration**	**Feuille : répartition de la pigmentation anthocyanique**	**Blatt: Verteilung der Anthocyanfärbung**	**Hoja: distribución de la pigmentación antociánica**		
PQ	**(d)**	mainly towards base	principalement vers la base	vorwiegend zur Basis hin	principalmente hacia la base	Passionate Pink	1
	(e)	mainly towards apex	principalement vers le sommet	vorwiegend zur Spitze hin	principalmente hacia el ápice		2
		mainly towards margin	principalement vers le bord	vorwiegend zum Rand hin	principalmente hacia los bordes		3
		mainly along main vein	principalement le long de la nervure principale	vorwiegend entlang der Hauptader	principalmente a lo largo del nervio principal	Redgapi	4
		scattered discrete spots	taches discrètes diffuses	verstreute einzelne Flecken	manchas diferenciadas y dispersas		5
		scattered irregular blotches	taches irrégulières diffuses	verstreute unregelmäßige Flecken	manchas irregulares y dispersas	Harrosy	6

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
23. (*)		**Leaf: area covered by anthocyanin coloration**	**Feuille : surface couverte par la pigmentation anthocyanique**	**Blatt: Zone mit Anthocyanfärbung**	**Hoja: área cubierta por la pigmentación antociánica**		
QN	**(d)**	small	petite	klein	pequeña	Harrosy	3
	(e)	medium	moyenne	mittel	media		5
		large	grande	groß	grande	Passionate Pink	7
24.		**Flowering stem: intensity of anthocyanin coloration**	**Tige florale : intensité de la pigmentation anthocyanique**	**Blütentrieb: Intensität der Anthocyanfärbung**	**Tallo floral: intensidad de la pigmentación antociánica**		
QN	**(f)**	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Gaudwwhi	1
		weak	faible	gering	débil	The Bride	3
		medium	moyenne	mittel	media		5
		strong	forte	stark	fuerte	Passionate Pink	7
25.		**Flowering stem: distribution of anthocyanin coloration**	**Tige florale : répartition de la pigmentation**	**Blütentrieb: Verteilung der Anthocyanfärbung**	**Tallo floral: distribución de la pigmentación antociánica**		
PQ	**(f)**	in distal quarter	sur le quart distal	im distalen Viertel	en el cuarto distal	The Bride	1
		in distal half	sur la moitié distale	in der distalen Hälfte	en la parte media distal	Baltincite	2
		throughout	sur l'ensemble	durchgehend	en todo el tallo	Passionate Pink	3
26. (*)		**Bud: color**	**Bourgeon : couleur**	**Knospe: Farbe**	**Yema: color**		
PQ	**(g)**	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)		
27. (*) (+)		**Flower: width**	**Fleur : largeur**	**Blüte: Breite**	**Flor: anchura**		
QN		narrow	étroite	schmal	estrecha	Redgapi	3
		medium	moyenne	mittel	media	Gaudwwhi	5
		broad	large	breit	ancha	The Bride	7

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
28.		**Petal: shape**	**Pétale : forme**	**Blütenblatt: Form**	**Pétalo: forma**		
(+)							
PQ		ovate	ovale	eiförmig	oval	The Bride	1
		elliptic	elliptique	elliptisch	elíptico	Passionate Pink	2
		obovate	obovale	verkehrt eiförmig	oboval		3
		obtrullate	transverse	verkehrt rautenförmig	en forma de llana invertida		4
		rhombic	losangique	rhombisch	rómbico	White Dove	5
29. **(*)** **(+)**		**Petal: length**	**Pétale : longueur**	**Blütenblatt: Länge**	**Pétalo: longitud**		
QN		short	court	kurz	corto	Redgapi	3
		medium	moyen	mittel	medio	Gaudros	5
		long	long	lang	largo	Gaudwwhi	7
30. **(*)** **(+)**		**Petal: width**	**Pétale : largeur**	**Blütenblatt: Breite**	**Pétalo: anchura**		
QN		narrow	étroit	schmal	estrecho	Passionate Pink	3
		medium	moyen	mittel	medio	Gaudros	5
		broad	large	breit	ancho	Gaudwwhi	7
31. **(*)**		**Petal: length/width ratio**	**Pétale : rapport longueur/largeur**	**Blütenblatt: Verhältnis Länge/Breite**	**Pétalo: relación longitud/anchura**		
QN		slightly elongated	légèrement allongé	leicht lang ausgezogen	ligeramente alargado	Gaudwwhi	3
		moderately elongated	modérément allongé	mäßig lang ausgezogen	moderadamente alargado	Redgapi	5
		strongly elongated	fortement allongé	stark lang ausgezogen	fuertemente alargado	Passionate Pink	7
32. **(*)** **(+)**		**Petal: main color of inner surface**	**Pétale : couleur principale de la face interne**	**Blütenblatt: Hauptfarbe der Innenfläche**	**Pétalo: color principal de la cara interna**		
PQ	**(h)**	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)		

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
33. **(*)** **(+)**		**Petal: secondary color of inner surface (excluding veins)**	**Pétale : couleur secondaire de la face interne**	**Blütenblatt: Sekundärfarbe der Innenfläche (ohne Adern)**	**Pétalo: color secundario de la cara interna (excluidos los nervios)**		
PQ	**(h)**	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)		
34. **(*)** **(+)**		**Petal: distribution of secondary color of inner surface (excluding veins)**	**Pétale : répartition de la couleur secondaire sur la face interne (sans les nervures)**	**Blütenblatt: Verteilung der Sekundärfarbe der Innenfläche (ohne Adern)**	**Pétalo: distribución del color secundario de la cara interna (excluidos los nervios)**		
PQ	**(h)**	none	aucune	keine	ausente		1
		at tip	au sommet	an der Spitze	en la punta		2
		at margins	aux bords	an den Rändern	en los bordes	Harrosy	3
		at base	à la base	an der Basis	en la base		4
		scattered irregular blotches	taches irrégulières diffuses	verstreute unregelmäßige Flecken	manchas irregulares y dispersas		5
		scattered fine flecks	panachure fine diffuse	verstreute dünne Flecken	manchitas dispersas		6
35. **(*)** **(+)**		**Petal: conspicousness of veins**	**Pétale : netteté des nervures**	**Blütenblatt: Ausprägung der Adern**	**Pétalo: visibilidad de los nervios**		
QN	**(h)**	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil	Gaudwwhi	1
		weak	faible	gering	débil	Gausudre	3
		medium	moyenne	mittel	media	Passionate Blush	5
		strong	forte	stark	fuerte	Passionate Pink	7
36.		**Style: color**	**Style : couleur**	**Griffel: Farbe**	**Estilo: color**		
PQ	**(h)**	white	blanc	weiß	blanco	The Bride	1
		cream	crème	cremefarben	crema	Gaudwwhi	2
		pink	rose	rosa	rosa	Passionate Pink	3
		red	rouge	rot	rojo	Redgapi	4

		English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
37.		**Stamen: color of filament**	**Étamine : couleur du filament**	**Staubblatt: Farbe des Staubfadens**	**Estamen: color del filamento**		
PQ	**(h)**	white	blanche	weiß	blanco	Gaudwwhi	1
		white tinged pink	blanche teintée de rose	weiß mit rosa meliert	blanco veteado de rosa	Passionate Pink	2
		pink	rose	rosa	rosa	Redgapi	3
		red	rouge	rot	rojo		4
38. **(+)**		**Petal: color change with age**	**Pétale : changement de la couleur avec le temps**	**Blütenblatt: Veränderung der Farbe mit dem Alter**	**Pétalo: cambio de color con el paso del tiempo**		
PQ		absent or very weak	absent ou faible	fehlend oder sehr gering	ausente o muy débil	Passionate Blush	1
		weak	faible	gering	débil	Gaudwwhi	2
		medium	moyen	mittel	medio		3
		strong	fort	stark	fuerte	Baltincite	4

8. Explanations on the Table of Characteristics

8.1 Explanations covering several characteristics

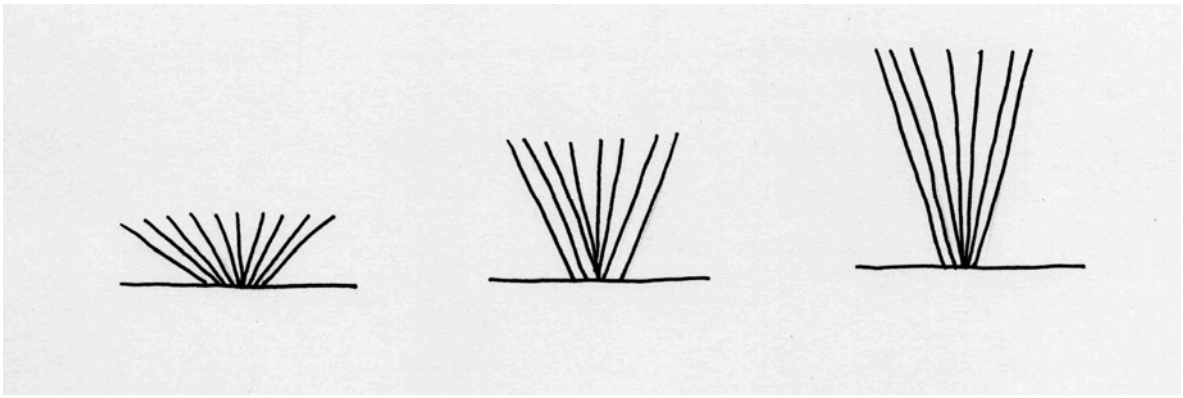
Unless otherwise indicated, all characteristics should be observed at the time of full flowering.

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

(a) To be observed on the whole plant in full flower, including the flowering stems.
(b) To be observed on the entire flowering stem.
(c) To be observed on young shoots before the first flowers open.
(d) To be observed on fully expanded leaves from the lower third of stem.
(e) To be observed on the upper surface of the leaf.
(f) To be observed on the part of the flowering stem above the highest leaves.
(g) To be observed just prior to flower opening.
(h) Color observations should be made early in the day on fresh, fully expanded flowers, before they start to fade.

8.2 Explanations for individual characteristics

Ad. 3: Plant: height/width ratio



3	5	7
moderately compressed	medium	moderately elongated

Ad. 4: Plant: density

The plant density is observed as the overall impression, based on foliage and flowers.

Ad. 5: Plant: floriferousness

3
low

5
medium

7
high

This characteristic is the number of flowers open on a plant at any one time.

Ad. 7: Stem: number of branches

3
few

5
medium

7
many

Ad. 10: Young shoot: anthocyanin coloration

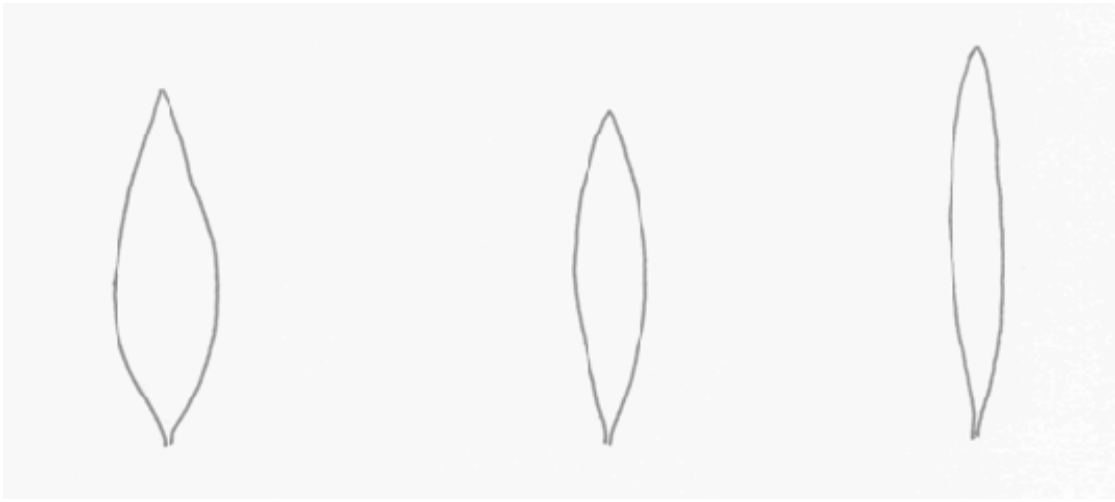
1
absent or very weak

3
weak

5
medium

7
strong

Ad. 13: Leaf: length/width ratio



3
slightly elongated

5
moderately elongated

7
strongly elongated

Ad. 18: Leaf: distribution of variegation

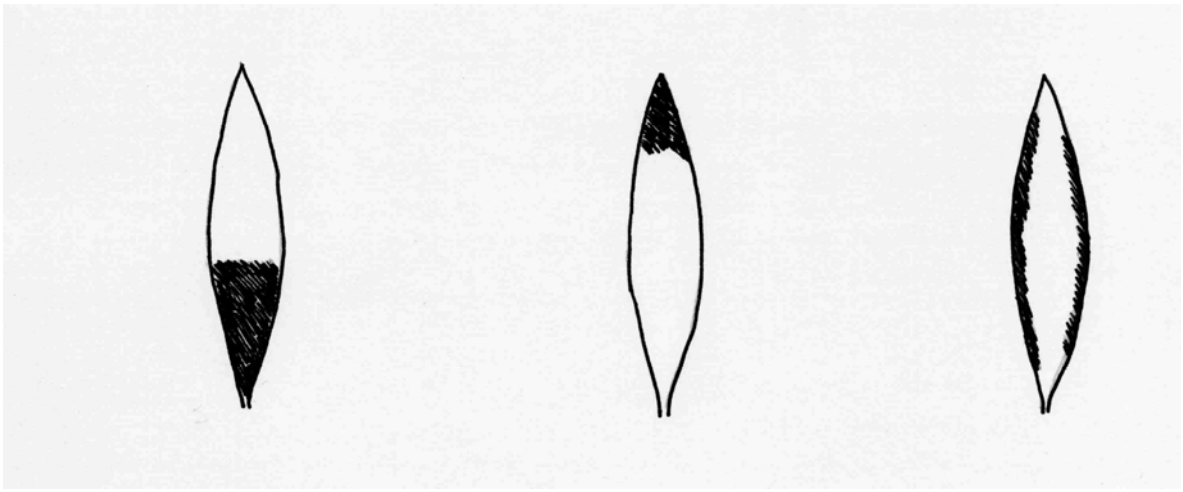
1
marginal

2
central

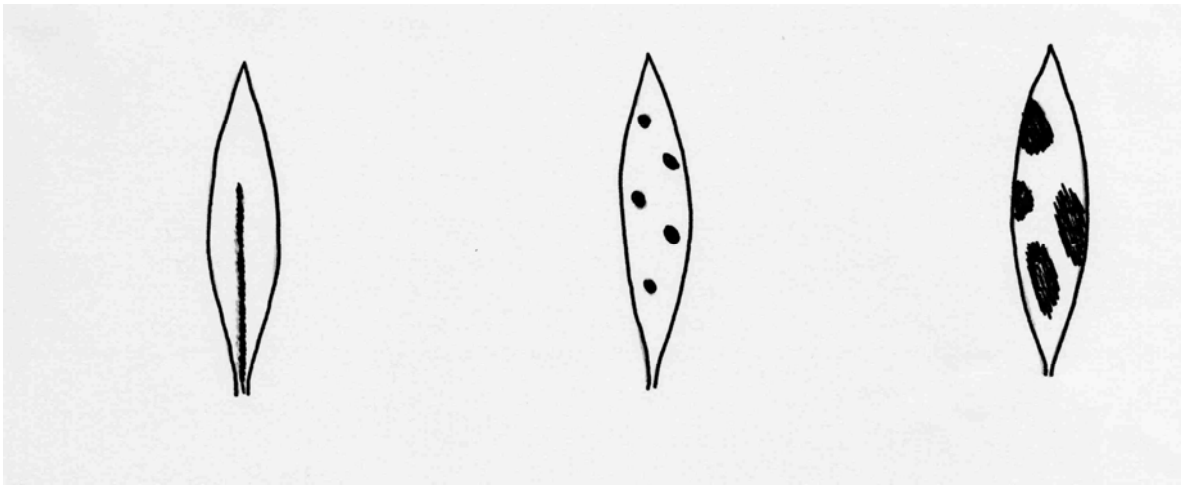
3
scattered irregular blotches

4
scattered fine flecks

Ad. 22: Leaf: distribution of anthocyanin coloration

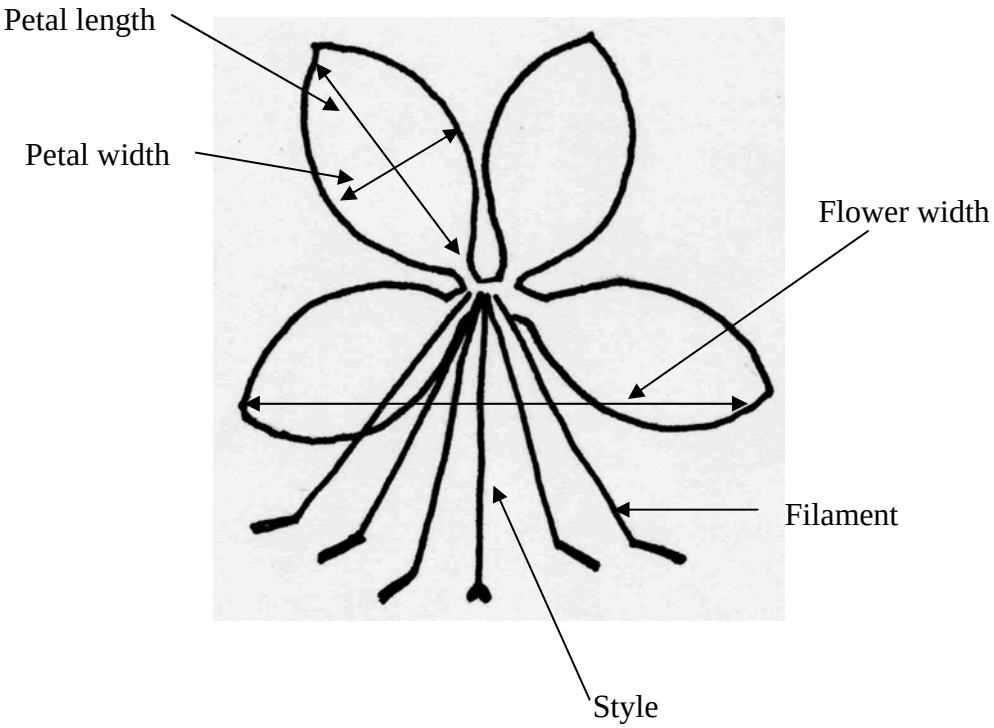


1	2	3
mainly towards base	mainly towards apex	mainly towards margin

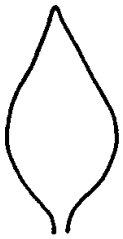
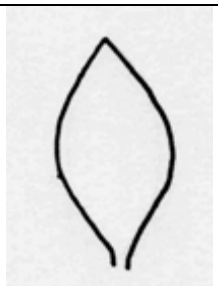
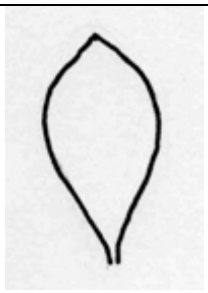
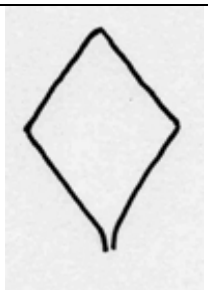
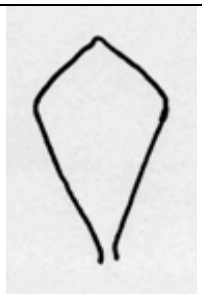


4	5	6
mainly along main vein	scattered discrete spots	scattered irregular blotches

Ad. 27: Flower: width
Ad. 29: Petal: length
Ad. 30: Petal: width



Ad. 28: Petal: shape

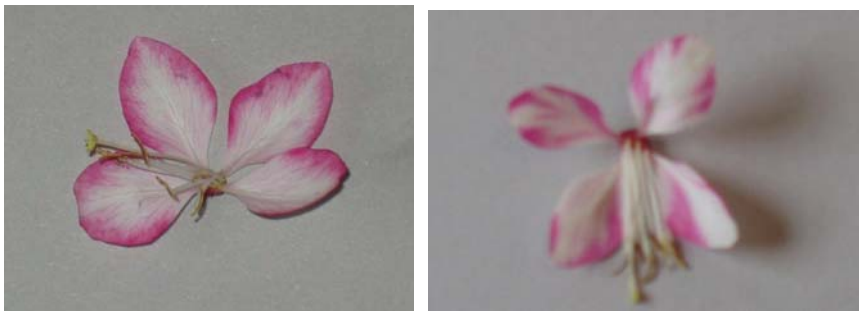
		< position of broadest part >		
		below middle	at middle	above middle
< lateral outline >	rounded	 1 ovate	 2 elliptic	 3 obovate
	angular		 5 rhombic	 4 obtrullate

Ad. 32: Petal: main color of inner surface

The main color is the color with the largest surface area.

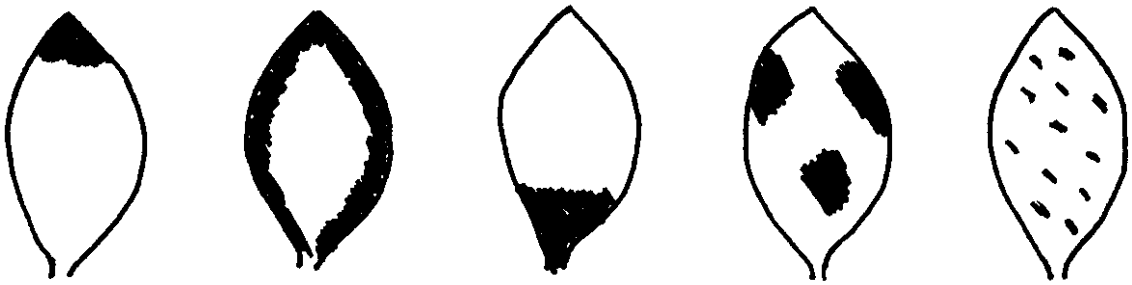
Ad. 33: Petal: secondary color of inner surface (excluding veins)

The secondary color is the color with the second largest surface area.



Examples of petals with a secondary color

Ad. 34: Petal: distribution of secondary color of inner surface (excluding veins)



2
at tip

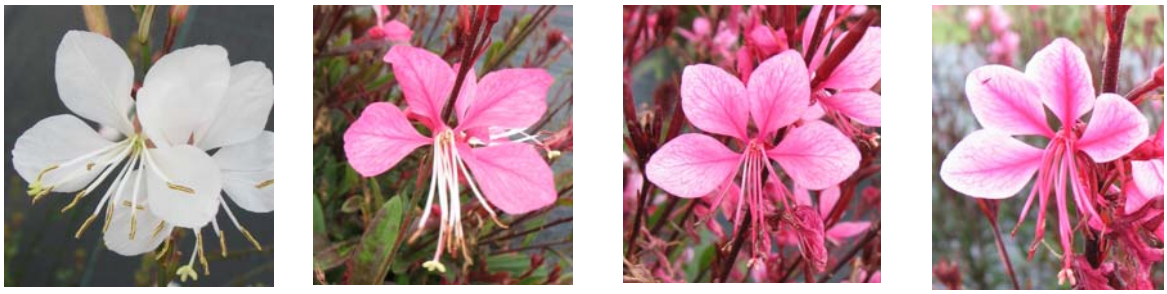
3
at margins

4
at base

5
scattered irregular blotches

6
scattered fine flecks

Ad. 35: Petal: conspicuousness of veins



1
absent or very weak

3
weak

5
medium

7
strong

The conspicuousness of the veins is determined by the color contrast.

Ad. 38: Petal: color change with age

To be observed on flowers before they collapse and fall off.

9. Literature

Brickell, C. (ed.), 1996: The Royal Horticultural Society A-Z Encyclopedia of Garden Plants. Dorling Kindersley Ltd., London, GB.

Huxley, A. (ed.), Griffiths, M. (ed.), Levy, M. (ed.), 1999: The Royal Horticultural Society. Dictionary of Gardening. McMillan Reference Ltd., London, GB.

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

1.1.1 Botanical name	*Gaura* L.
1.1.2 Common name	Gaura
1.2 Species/Group (please complete)	

2. Applicant

Name	
Address	
Telephone No.	
Fax No.	
E-mail address	
Breeder (if different from applicant)	

3. Proposed denomination and breeder's reference

Proposed denomination (if available)	
Breeder's reference	

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)

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

(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) *in vitro* propagation [ ]

(c) other (state method) [ ]

4.2.2 Seed [ ]

(a) Self-pollination [ ]

(b) Cross-pollination
(i) population [ ]
(ii) synthetic variety [ ]

(c) Hybrid [ ]
(please provide details)

(d) Other [ ]
(please provide details)

4.2.3 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 (1)	**Plant: height**		
	short	Gausudre	3
	medium	Redgapi	5
	tall	Gaudwwhi	7
5.2 (17)	**Leaf: variegation**		
	absent	Gaudwwhi	1
	present	Passionate Rainbow	9
5.3 (21)	**Leaf: anthocyanin coloration**		
	absent or very weak	Gaudwwhi	1
	weak		3
	medium	Passionate Pink	5
	strong	Passionate Rainbow	7
5.4 (32)	**Petal: main color of inner surface**		
	white	Gaudwwhi	1
	light pink	Passionate Pink	2
	medium pink	Gaudros	3
	dark pink		4
	red		5

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

	Characteristics	Example Varieties	Note
5.5 (33)	**Petal: secondary color of inner surface (excluding veins)**		
	white		1
	light pink		2
	medium pink	Harrosy	3
	dark pink		4
	red		5
5.6 (34)	**Petal: distribution of secondary color of inner surface (excluding veins)**		
	none		1
	at tip		2
	at margins	Harrosy	3
	at base		4
	scattered irregular blotches		5
	scattered fine flecks		6
5.7	**Petal: conspicousness of veins**		
(35)	absent or very weak	Gaudwwhi	1
	weak	Gausudre	3
	medium	Passionate Blush	5
	strong	Passionate Pink	7

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
Example	*Petal: main color*	*white*	*dark pink*

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

7.3.1 Main use

(a) garden plant [ ]
(b) pot plant [ ]
(c) cut-flower [ ]
(d) other [ ]
(please provide details)

7.3.2 A representative color photograph 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.

[#] 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:

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]