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INTERNATIONAL UNION
FOR THE PROTECTION
OF NEW VARIETIES OF
PLANTS

UNION INTERNATIONALE
POUR LA PROTECTION
DES OBTENTIONS
VÉGÉTALES

INTERNATIONALER
VERBAND ZUM SCHUTZ
VON PFLANZEN-
ZÜCHTUNGEN

UNIÓN INTERNACIONAL
PARA LA PROTECCIÓN
DE LAS OBTENCIÓNES
VEGETALES

DRAFT

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

TURNIP RAPE

*(Brassica rapa L. var.
silvestris (Lam.) Briggs.)*

These Guidelines should be read in conjunction with document TG/1/2, which contains explanatory notes on the general principles on which the Guidelines have been established.

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I. Subject of these Guidelines

These Test Guidelines apply to all varieties of *Brassica rapa L. var. silvestris* (Lam.) Briggs. excluding varieties with swollen root.

II. Material Required

1. The competent authorities decide when, where and in what quantity and quality the seed required for testing the variety is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must make sure that all customs formalities are complied with. The minimum quantity of seed to be supplied by the applicant in one or several samples should be:

300 g.

In the case of hybrids and synthetic varieties a minimum of 100 g seed per component should be supplied in addition. The seed should at least meet the minimum requirements for germination capacity, moisture content and purity for marketing seed in the country in which the application is made. The germination capacity should be as high as possible.

2. The plant material must not have undergone any treatment unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

III. Conduct of Tests

1. The minimum duration of tests should normally be two similar growing periods.
2. The tests should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place.
3. The field tests should be carried out under conditions ensuring normal growth. The distance between rows and between plants within the rows should be adjusted to enable observations on individual plants. The size of the plots should be such that plants or parts of the plants may be removed for measurements and counting without prejudice to the observations which must be made up to the end of the growing period. As a minimum, each test should include a total of:

500 plants

which should be divided between 2 or more replicates. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.

4. Additional tests for special purposes may be established.

IV. Methods and Observations

1. Unless otherwise indicated, in the case of plant-by-plant assessment of distinctness and uniformity, all observations determined by measurements or counting should be made on 60 plants or parts of 60 plants.
2. In the case of visual assessment of distinctness and uniformity by a single observation of a group of plants or parts of plants, observations should be made on 500 plants or parts of 500 plants.
3. For the assessment of uniformity of open-pollinated varieties and synthetic varieties the variability within the variety should not exceed the variability of comparable varieties already known. Interpretation of results should be made according to the rules for cross-pollinated species as laid down in the General Introduction. (In the case of clear off-types a minimum population standard of 2% with an acceptance probability of at least 95% should be applied.)

For the assessment of uniformity of parental lines - if not otherwise indicated - a population standard of 2% with an acceptance probability of at least 95% should be applied. For the assessment of uniformity of hybrids - if not otherwise indicated - a population standard of 10% with an acceptance probability of at least 95% should be applied.)

4. Unless otherwise indicated, all observations on the foliage should be made on fully developed leaves in the rosette.
5. Unless otherwise indicated, all observations on siliquas should be made on the fully developed siliqua from the lower third on the main stem.

V. Grouping of Varieties

1. The collection of varieties to be grown should be divided into groups to facilitate the assessment of distinctness. Characters which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly, within the variety. Their various states of expression should be fairly evenly distributed throughout the collection.
2. It is recommended that the competent authorities use the following characteristics for grouping varieties:
 - (a) Ploidy (characteristic 2)
 - (b) Leaf type (characteristic 8)
 - (c) Tendency to form inflorescences in the year of sowing for spring sown trials (characteristic 15)
 - (d) Time of flowering in the year after the year of sowing for autumn sown trials (characteristic 17)
 - (e) Flower: color of petals (characteristic 19).

VI. Characteristics and Symbols

1. To assess distinctness, uniformity and stability, the characteristics and their states as given in the Table of Characteristics should be used.
2. Notes (numbers), for the purposes of electronic data processing, are given opposite the states of expression for each characteristic. For certain characteristics, different example varieties, separated by a semicolon, are indicated for spring turnip rape and winter turnip rape. Where winter varieties are indicated they follow the semicolon

3. Legend

(*) Characteristics that should be used on all varieties in every growing period over which the examinations are made and always be included in the variety descriptions, except when the state of expression of a preceding characteristics or regional environmental conditions render this impossible.

- (+) See Explanations on the Table of Characteristics in Chapter VIII.
- 1) The optimum stage of development for the assessment of each characteristic is indicated by a number in the second column. The stages of development denoted by each number are described at the end of Chapter VIII.

The letters indicate the following:

- M: actual measurement
VG: visual assessment by a single observation of a group of plants or parts of plants
VS: visual assessment by observations of a number of individual plants or plant parts
S: special test.

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

| Stage Stade Stadium Estado | ¹⁾ English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplos | Note/ Nota |
|-------------------------------------|--------------------------|--------------------------|----------------------|---------------------------|---|---------------|
| 1. 00 (+) | Seed: erucic acid S | Graine: acide éruçide | Samen: Erucasäure | Semilla: ácido erúcico | | |
| | | absent | fehlend | ausente | - ; Rex | 1 |
| | | present | vorhanden | presente | Nokonova; Perko PVH | 9 |
| 2. S (*) | Ploidy | Ploïdie | Ploidie | Plloidía | | |
| | diploid | diploïde | diploid | diploide | Nokonova; Rex | 2 |
| | tetraploid | tétraploïde | tetraploid | tetraploide | - ; Perko PVH | 4 |
| 3. S (+) | Cotyledon: length | Cotylédon: longueur | Keimblatt: Länge | Cotiledón: longitud | | |
| | short | court | kurz | corto | | 3 |
| | medium | moyen | mittel | medio | - ; Rex | 5 |
| | long | long | lang | largo | - ; Perko PVH | 7 |
| 4. S (+) | Cotyledon: width | Cotylédon: largeur | Keimblatt: Breite | Cotiledón: anchura | | |
| | narrow | étroit | schmal | estrecho | | 3 |
| | medium | moyen | mittel | medio | | 5 |
| | broad | large | breit | ancho | - ; Perko PVH | 7 |
| 5. 21-27 VG | Leaf: attitude | Feuille: port | Blatt: Stellung | Hoja: porte | | |
| | erect | dressé | aufrecht | erecto | Hysyn 100; - | 1 |
| | semi-erect | demi-dressé | halbaufrecht | semierecto | Tobin; - | 3 |
| | horizontal | horizontal | waagerecht | horizontal | Clan; - | 5 |

| Stage Stade Stadium Estado | ¹⁾ ¹⁾ English ¹⁾ | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplos | Note/ Nota |
|-------------------------------------|---|---|---|--|---|------------------|
| 6. (+) | 21-27 VG | Leaf: reflexion of top | Feuille: enroulement du sommet | Blatt: Rollen der Spitze | Hoja: curvatura del ápice | |
| | | weak | faible | gering | débil | Tobin; - |
| | | medium | moyen | mittel | media | Skye; - |
| | | strong | fort | stark | fuerte | Fortuna; - |
| 7. (*) | 21-27 VG | Leaf: green color | Feuille: couleur verte | Blatt: Grünfärbung | Hoja: color verde | |
| | | light | pâle | hell | claro | Clan; - |
| | | medium | moyenne | mittel | medio | Tuli; - |
| | | dark | foncée | dunkel | oscuro | Agena; - |
| 8. (*) (+) | 21-27 VS | Leaf: type | Feuille: type | Blatt: Typ | Hoja: tipo | |
| | | entire | entièrre | ganzrandig | entera | - ; Chicon |
| | | lobed | lobée | gelappt | lobulada | Kulta; Perko PVH |
| 9. (+) | 21-27 VS | For varieties with lobed leaves only: Leaf: number of lobes | Uniquement variétés à feuilles lobées : Feuille: nombre de lobes | Nur für Sorten mit gelappten Blättern: Blatt: Anzahl Lappen | Sólo para variedades de hoja lobulada: Hoja: número de lóbulos | |
| | | few | faible | gering | bajo | Mull; - |
| | | medium | moyen | mittel | medio | Skye; - |
| | | many | élevé | groß | alto | Hymac; - |
| 10. (+) | 21-27 VS | For varieties with entire leaves only: Leaf: depth of incisions of blade | Uniquement variétés à feuilles entières : Feuille: profondeur des incisions du limbe | Nur für Sorten mit ganzrandigen Blättern: Blatt: Tiefe der Einschnitte der Blattspreite | Sólo para variedades de hoja entera: Hoja: profundidad de las incisiones en el limbo | |
| | | shallow | peu profondes | flach | poco profundas | 3 |
| | | medium | moyennes | mittel | medias | 5 |
| | | deep | profondes | tief | profundas | 7 |

| | | Stage Stade Stadium Estado ¹⁾ | 1) English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplos | Note/ Nota |
|------------|---|---|--|---|---|------------|---|---------------|
| 11. | 21-27 VS | Leaf: undulation of margin | Feuille: ondulation du bord | Blatt: Randwellung | Hoja: ondulación del borde | | | |
| | | weak | faible | gering | débil | Tobin; - | | 3 |
| | | medium | moyenne | mittel | media | Kova; - | | 5 |
| | | strong | forte | stark | fuerte | Harmoni; - | | 7 |
| 12. | 21-27 (+) VS | Leaf: dentation of margin | Feuille: denture du bord | Blatt: Randzähnung | Hoja: incisiones en el borde | | | |
| | | weak | faible | gering | débiles | | | 3 |
| | | medium | moyenne | mittel | medias | | | 5 |
| | | strong | forte | stark | fuertes | | | 7 |
| 13. | 21-27 (*) (+) VS | Leaf: length (blade and petiole) | Feuille: longueur (limbe et pétiole) | Blatt: Länge (Blattspreite und Blattstiel) | Hoja: longitud (limbo y pecíolo) | | | |
| | | short | courte | kurz | corta | Kulta | | 3 |
| | | medium | moyenne | mittel | media | Harmoni | | 5 |
| | | long | longue | lang | larga | | | 7 |
| 14. | 21-27 (+) (VS) | Leaf: width (widest point) | Feuille: largeur (au point le plus large) | Blatt: Breite (an der breitesten Stelle) | Hoja: anchura (punto más ancho) | | | |
| | | narrow | étroite | schmal | estrecha | Kulta | | 3 |
| | | medium | moyenne | mittel | media | Kova | | 5 |
| | | broad | large | breit | ancha | | | 7 |

| Stage Stade Stadium Estado | ¹⁾ ¹⁾ English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplos | Note/ Nota |
|-------------------------------------|--|---|---|--|--|---------------|
| 15. | VG | Tendency to form inflorescences in the year of sowing for spring sown trials | Tendance à former des inflorescences l'année du semis dans les essais semés au printemps | Neigung zur Bildung von Blütenständen im Aussaatjahr bei Frühjahrsaussaat | Tendencia a formar inflorescencias el año de la siembra en los ensayos sembrados en primavera | |
| | (*) | | | | | |
| | | absent or very weak | absente ou très faible | fehlend oder sehr gering | ausente o muy débil | Triton |
| | | weak | faible | gering | débil | Rex |
| | | medium | moyenne | mittel | media | Primas |
| | | strong | forte | stark | fuerte | Nokonova |
| | | very strong | très forte | sehr stark | muy fuerte | Kulta |
| 16. | VG | Tendency to form inflorescences in year of sowing for summer sown trials | Tendance à former des inflorescences l'année du semis dans les essais semés en été | Neigung zur Bildung von Blütenständen im Aussaatjahr bei Sommerraussaat | Tendencia a formar inflorescencias el año de la siembra en los ensayos sembrados en verano | |
| | | | | | | |
| | | absent or very weak | absente ou très faible | fehlend oder sehr gering | ausente o muy débil | Triton; Rex |
| | | weak | faible | gering | débil | Primax |
| | | medium | moyenne | mittel | media | Asko |
| | | strong | forte | stark | fuerte | Nokonova |
| | | very strong | très forte | sehr stark | muy fuerte | Hymac |

| Stage Stade Stadium Estado | ¹⁾ ¹⁾ English ¹⁾ | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|-------------------------------------|---|--|---|--|--|---------------|
| 17. (*) 61-62 | Time of flowering in the year after the year of sowing for autumn sown trials (50% of plants with at least one open flower) | Époque de floraison l'année après l'année du semis dans les essais semés en automne (50% des plantes avec au moins une fleur épanouie) | Zeitpunkt der Blüte im Jahr nach dem Aussaatjahr bei Herbstaussaat (50% der Pflanzen mit wenigstens einer geöffneten Blüte) | Época de floración en el año posterior al año de la siembra en los ensayos sembrados en otoño (50% de las plantas con al menos una flor abierta) | | |
| | very early | très précoce | sehr früh | muy temprana | 1 | |
| | early | précoce | früh | temprana | 3 | |
| | medium | moyenne | mittel | media | 5 | |
| | late | tardive | spät | tardía | 7 | |
| | very late | très tardive | sehr spät | muy tardía | 9 | |
| 18. (*) 61-62 | Time of flowering in the year of sowing for spring sown trials (50% of plants with at least one open flower) | Époque de floraison dans l'année du semis dans les essais semés au printemps (50% des plantes avec au moins une fleur épanouie) | Zeitpunkt der Blüte im Jahr bei Frühlingsaussaat (50% der Pflanzen mit wenigstens einer geöffneten Blüte) | Época de floración en el año de la siembra en los ensayos sembrados en primavera (50% de las plantas con al menos una flor abierta) | | |
| | very early | très précoce | sehr früh | muy temprana | 1 | |
| | early | précoce | früh | temprana | Agena | 3 |
| | medium | moyenne | mittel | media | Kova | 5 |
| | late | tardive | spät | tardía | Eldorado | 7 |
| | very late | très tardive | sehr spät | muy tardía | 9 | |
| 19. (*) 62-63 VG | Flower: color of petal | Fleur: couleur des pétales | Blüte: Farbe des Blütenblatts | Flor: color de los pétalos | | |
| | lemon yellow | jaune-citron | zitronengelb | amarillo limón | Kulta; Perko PVH | 1 |
| | orange yellow | jaune-orange | orangegegelb | amarillo anaranjado | | 2 |

| | | Stage Stade Stadium Estado ¹⁾ | 1) English | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|-----|---------------------|---|--|---|---|----------|--|---------------|
| 20. | 62-63 VS | Flower: length of petal | Fleur: longueur des pétales | Blatt: Länge des Blütenblatts | Flor: longitud de los pétalos | | | |
| | | short | courts | kurz | cortos | | | 3 |
| | | medium | moyens | mittel | medios | Kulta | | 5 |
| | | long | longs | lang | largos | | | 7 |
| 21. | 62-63 VS | Flower: width of petal | Fleur: largeur des pétales | Blatt: Breite des Blütenblatts | Flor: anchura de los pétalos | | | |
| | | narrow | étroits | schmal | estrechos | | | 3 |
| | | medium | moyens | mittel | medios | Kulta | | 5 |
| | | broad | larges | breit | anchos | | | 7 |
| 22. | 62-63 (*) VG/VVS | Flower: production of pollen | Fleur: production de pollén | Blüte: Pollenbildung | Flor: producción de polen | | | |
| | | absent | absente | fehlend | ausente | MDA 1803 | | 1 |
| | | present | présente | vorhanden | presente | Palle | | 9 |
| 23. | 75-89 (*) VS | Plant: total length including side branches | Plante: longueur totale, branches latérales incluses | Pflanze: Gesamtlänge, einschließlich der Seitenzweige | Planta: longitud total incluidos los tallos laterales | | | |
| | | short to medium | courte à moyenne | kurz bis mittel | corta a media | | | 3 |
| | | medium | moyenne | mittel | media | Kulta | | 5 |
| | | medium to long | moyenne à longue | mittel bis lang | media a larga | Harmoni | | 7 |
| 24. | 75-89 VS | Siliqua: length (between pedicel and beak) | Siliqua: longueur (entre pédoncule et bec) | Schote: Länge (zwischen Stiel und Spitze) | Silicua: longitud (entre el pedicelo y el rostro) | | | |
| | | short | courte | kurz | corta | Palle | | 3 |
| | | medium | moyenne | mittel | media | Kulta | | 5 |
| | | long | longue | lang | larga | Harmoni | | 7 |
| 25. | 75-89 VS | Siliqua: width (widest point) | Siliqua: largeur (au point le plus large) | Schote: Breite (an der breitesten Stelle) | Silicua: anchura (en su punto más ancho) | | | |
| | | narrow | étroite | schmal | estrecha | | | 3 |
| | | medium | moyenne | mittel | media | | | 5 |
| | | broad | large | breit | ancha | | | 7 |

| Stage Stade Stadium Estado | ¹⁾ ¹⁾ English ¹⁾ | français | deutsch | español | Example Varieties Exemples Beispielssorten Variedades ejemplo | Note/ Nota |
|-------------------------------------|---|------------------------------------|--|--|--|-----------------|
| 26. (*) | 75-89 VS | Siliqua: length of beak | Siliqua: longueur du bec | Schote: Länge der Spitze | Silicua: longitud del rostro | |
| | | short | court | kurz | corto | Palle |
| | | medium | moyen | mittel | medio | Kulta |
| | | long | long | lang | largo | 7 |
| 27. | 75-89 VS | Siliqua: length of pedicel | Siliqua: longueur du pédoncule | Schote: Länge des Stiels | Silicua: longitud del pedicelo | |
| | | short | court | kurz | corto | MDA 1803 |
| | | medium | moyen | mittel | medio | Kulta |
| | | long | long | lang | largo | 7 |
| 28. | 00 | Yellow seed | Graine jaune | Gelber Samen | Semillas amarillas | |
| | | absent | absente | fehlend | ausentes | Kova; Perko PVH |
| | | present | présente | vorhanden | presentes | Harmoni; Triton |
| 29. | 00 | Seed: ratio of yellow seeds | Graine: pourcentage de graines jaunes | Samen: Anteil des gelben Samens | Semilla: proporción de semillas amarillas | |
| | | 00 - 10% | 00 - 10% | 00 - 10% | 00 - 10% | 1 |
| | | 11 - 20% | 11 - 20% | 11 - 20% | 11 - 20% | 2 |
| | | 21 - 30% | 21 - 30% | 21 - 30% | 21 - 30% | 3 |
| | | 31 - 40% | 31 - 40% | 31 - 40% | 31 - 40% | 4 |
| | | 41 - 50% | 41 - 50% | 41 - 50% | 41 - 50% | 5 |
| | | 51 - 60% | 51 - 60% | 51 - 60% | 51 - 60% | 6 |
| | | 61 - 70% | 61 - 70% | 61 - 70% | 61 - 70% | 7 |
| | | 71 - 80% | 71 - 80% | 71 - 80% | 71 - 80% | 8 |
| | | 81 - 90% | 81 - 90% | 81 - 90% | 81.-.90% | 9 |
| | | 91 - 100% | 91 - 100% | 91 - 100% | 91.-.100% | 10 |

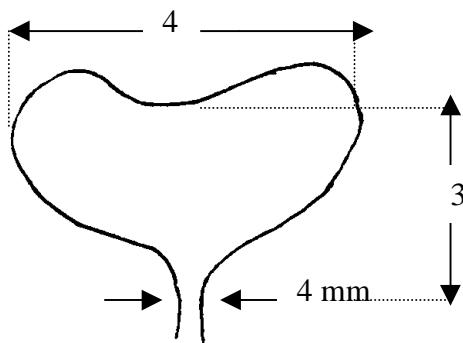
VIII. Explanations on the Table of Characteristics

Ad. 1: Seed: erucic acid

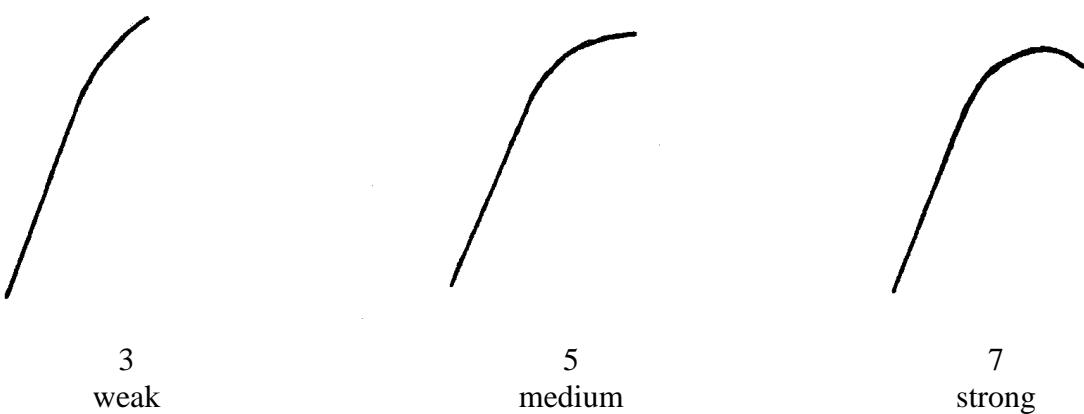
The erucic acid content should be observed on seed sent in by the applicant. It should be expressed as a percentage by mass of methyl esters in accordance with the ISO standard in document 5508, paragraph 6.2.2.1. Seed containing 2% or less of erucic acid will be classified as "absent".

Ad. 3 + 4: Cotyledon: length (3) and width (4)

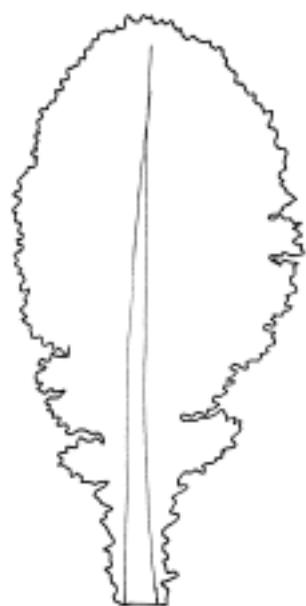
The measurements should be taken in the glasshouse on cotyledons of 40 seedlings. If the two cotyledons differ in size, the biggest one should be measured. The length is defined as the distance between the inclination at the top of the cotelydon and the point where the width of the petiole is about 4 mm. The width of the cotyledon should be measured at the widest point of the cotyledons.



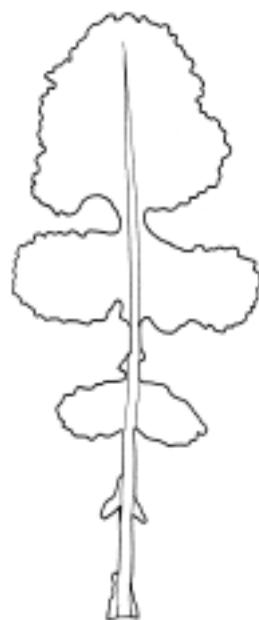
Ad. 6: Leaf: reflexion of top



Ad. 8: Leaf: type

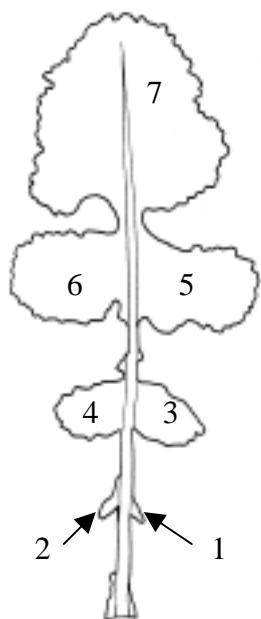


1
entire



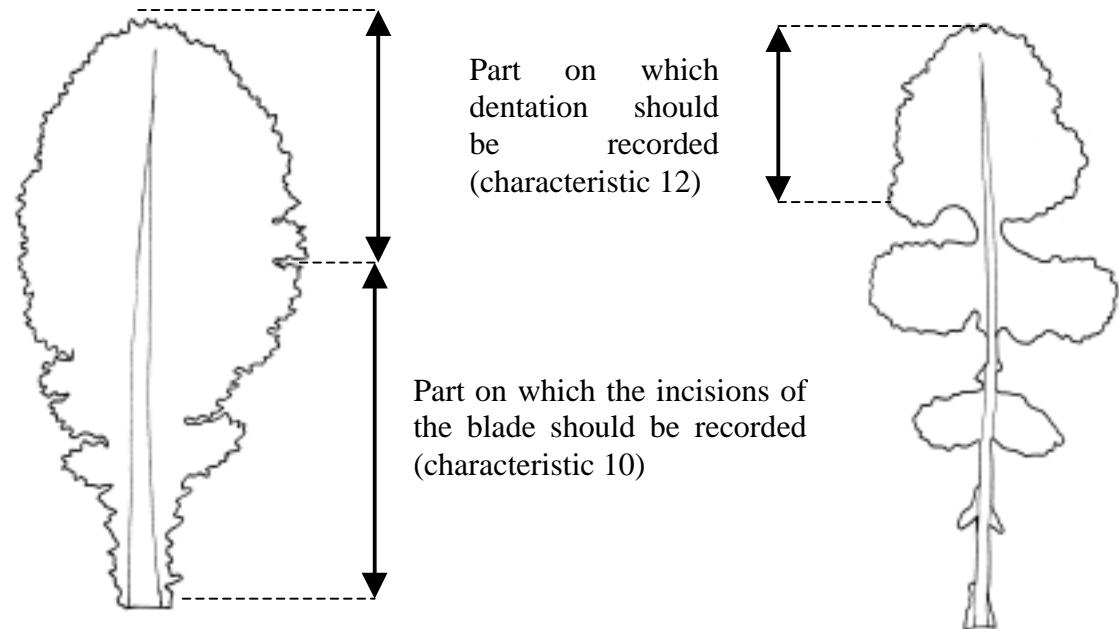
2
lobed

Ad. 9: Leaf: number of lobes

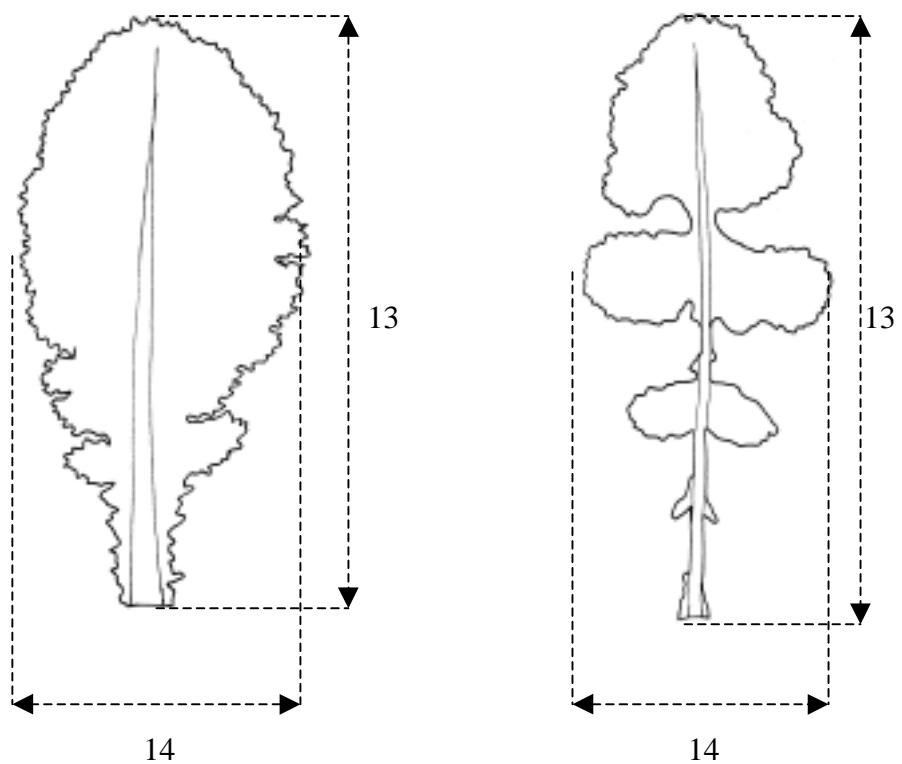


Parts of the leaf blade are considered as lobes if their length is at least equivalent to the width of the leaf petiole at their point of attachment and if the upper notch of the blade has at least half the length of the lobe itself.

Ad. 10 + 12: Leaf: depth of incisions (10) and dentation (12)



Ad. 13 + 14: Leaf: length (13) and width (14)



KEY FOR THE GROWTH STAGES according to Berkenkamp, 1973

| KEY | GENERAL DESCRIPTION |
|-----------|--|
| 0 | <u>Germination</u> |
| 00 | Dry seed |
| 10 | <u>Seedling growth</u> |
| 11 | Appearance of cotyledons |
| 13 | Cotyledons expanded |
| 15 | 1 leaf-stage |
| 17 | 2 leaf-stage |
| 19 | 3 leaf-stage |
| 20 | <u>Rosette</u> |
| 21 | 4 leaf-stage |
| 22 | 5 leaf-stage |
| 23 | 6 leaf-stage |
| 24 | 7 leaf-stage |
| 25 | 8 leaf-stage |
| 26 | 9-11 leaf-stage |
| 27 | 12 or more leaves are completely developed |
| 30 | <u>Stem elongation</u> |
| 31 | Distance between cotyledons and vegetation point is more than 5 cm |
| 35 | Distance between cotyledons and vegetation point is more than 15 cm |
| 39 | Distance between cotyledons and vegetation point is more than 25 cm |
| 50 | <u>Bud formation</u> |
| 51 | Terminal bud is present, not raised above leaves |
| 53 | Terminal bud is raised above level of leaves |
| 57 | Pedicels are elongating |
| 59 | Buds are yellowing |
| 60 | <u>Flower</u> |
| 61 | First open bud on terminal raceme |
| 62 | Few buds are open on terminal raceme |
| 64 | Full flower, lower siliques are elongating |
| 65 | Lower siliques are starting to fill, less than 5% of buds are not yet open |
| 67 | Seeds in lower siliques are enlarging, all buds are open |
| 70 | <u>Siliqua</u> |
| 71 | Seeds in lower siliques are in full size translucent |
| 75 | Seeds in lower siliques are green, opaque |
| 79 | All seeds of siliques on terminal raceme are dark |
| 80 | <u>Maturation</u> |
| 81 | Seeds in lower siliques on terminal raceme show brown areas |
| 85 | Seeds in upper siliques show brown areas |
| 89 | Brown siliques are brittle, stems are dry |

IX. Literature

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X. Technical Questionnaire

| | |
|---|---|
| | Reference Number (not to be filled in by the applicant) |
| TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights | |
| 1. Species | <i>Brassica rapa</i> L. TURNIP RAPE |
| 1.1 Subspecies | Silvestris <ul style="list-style-type: none">• Forma <i>ibernalis</i> []• Forma <i>aestiva</i> [] |
| 2. Applicant (Name and address) | |
| 3. Proposed denomination or breeder's reference | |

4. Information on origin, maintenance and reproduction of the variety

4.1 Type of material

- (a) inbred line
 - male sterile line []
 - male fertile line []
- (b) hybrid
 - male sterile hybrid []
 - male fertile hybrid []
- (c) open-pollinated variety []
- (d) synthetic variety []
- (e) other (please indicate)

4.2 Formula (if applicable, for each component in separate sheets, the information according to the following Chapters 5 to 7 to be added)

Single hybrid

- Denomination or breeder's reference of female parental line
- Denomination or breeder's reference of male parental line

Three-way hybrid

Denomination or breeder's reference of:

- single hybrid used
- female parental line of the single hybrid
- male parental line of the single hybrid
- female parent of the three-way hybrid
- male parental line of the three-way hybrid

NB: In case of use of male sterility system, indicate the name of the maintainer line of the female parental line

In case of use of self-incompatibility system, indicate, if applicable, the name of the self-compatible lines

4.3 Genetic origin and breeding method

4.4 Other information

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

| Characteristics | Example Varieties | Note |
|--|-------------------|------|
| 5.1 Ploidy (2) | | |
| diploid | Nokonova; Rex | 1[] |
| tetraploid | - ; Perko PVH | 9[] |
| 5.2 Leaf: type (8) | | |
| entire | - ; Chicon | 1[] |
| lobed | Kulta; Perko PVH | 2[] |
| 5.3 Tendency to form inflorescences in the year of sowing for spring (15) sown trials | | |
| absent or very weak | Triton | 1[] |
| weak | Rex | 3[] |
| medium | Primax | 5[] |
| strong | Nokonova | 7[] |
| very strong | Kulta | 9[] |

| Characteristics | Example Varieties | Note | |
|---|---|--|--|
| 5.4 Time of flowering in the year after the year of sowing for autumn (17) sown trials | | | |
| very early | | 1[] | |
| early | | 3[] | |
| medium | | 5[] | |
| late | | 7[] | |
| very late | | 9[] | |
| 5.5 Flower: color of petal (19) | | | |
| lemon yellow | Kulta; Perko PVH | 1[] | |
| orange lemon | | 2[] | |
| 5.6 Plant: total length including side branches (23) | | | |
| short to medium | | 3[] | |
| medium | Kulta | 5[] | |
| medium to long | Harmoni | 7[] | |
| 6. Similar varieties and differences from these varieties | | | |
| Denomination of similar variety | Characteristic in which the similar variety is different ^{o)} | State of expression of similar variety | State of expression of candidate variety |
| | | | |
| ^{o)} | In the case of identical states of expressions of both varieties, please indicate the size of the difference. | | |

7. Additional information which may help to distinguish the variety

7.1 Resistance to pests and diseases

7.2 Special conditions for the examination of the variety

(a) Group

- Spring turnip rape []
- Winter turnip rape []
- Spring forage rape []
- Winter forage rape []

(b) Other conditions

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 that question is yes, please attach a copy of such an authorization.