



**EUROPEAN UNION**

**COMMUNITY PLANT VARIETY OFFICE**

**PROTOCOL FOR DISTINCTNESS, UNIFORMITY AND STABILITY TESTS**

*Cynara scolymus* L.  
(*Cynara cardunculus* var. *scolymus* L.)

**GLOBE ARTICHOKE**

UPOV Species Code: CYNAR\_CAR

**Adopted on 25/03/2004**

## **I SUBJECT OF THE PROTOCOL**

The protocol describes the technical procedures to be followed in order to meet the Council Regulation 2100/94 on Community Plant Variety Rights. The technical procedures have been agreed by the Administrative Council and are based on general UPOV Document TG/1/3 and UPOV Guideline TG/184/3 dated 04/04/2001 for the conduct of tests for Distinctness, Uniformity and Stability. This protocol applies to varieties of *Cynara scolymus* L. (*Cynara cardunculus* var. *scolymus* L.).

## **II SUBMISSION OF SEED AND OTHER PLANT MATERIAL**

1. The Community Plant Variety Office (CPVO) is responsible for informing the applicant of

- the closing date for the receipt of plant material;
- the minimum amount and quality of plant material required;
- the examination office to which material is to be sent.

A sub-sample of the material submitted for test will be held in the variety collection as the definitive sample of the candidate variety.

The applicant is responsible for ensuring compliance with any customs and plant health requirements.

2. Final dates for receipt of documentation and material by the Examination Office

The final dates for receipt of requests, technical questionnaires and the final date or submission period for plant material will be decided by the CPVO and each Examination Office chosen.

The Examination Office is responsible for immediately acknowledging the receipt of requests for testing, and technical questionnaires. Immediately after the closing date for the receipt of plant material the Examination Office should inform the CPVO whether acceptable plant material has been received or not. However if unsatisfactory plant material is submitted the CPVO should be informed as soon as possible.

3. Plant material requirements

The final dates for request for technical examination and sending of Technical Questionnaire by the CPVO as well as submission date of plant material by the applicant can be found in the S2 supplement of the CPVO Official Gazette and the CPVO website ([www.cpvo.europa.eu](http://www.cpvo.europa.eu)).

Quality of seed:	Should not be less than the standards laid down for certified seed in Annex 2 of Council Directive 2002/55/EC.
Quality of plants:	Should not be less than the standards laid down for plants in EC Directive 92/33 and implementing measures.
Seed Treatment:	The plant material must not have undergone any treatment unless the CPVO and the examination office allow or request such treatment. If it has been treated, full details of the treatment must be given.
Special requirements:	-
Labelling of sample:	- Species - File number of the application allocated by the CPVO - Breeder's reference - Examination reference (if known) - Name of applicant - The phrase "On request of the CPVO" - In the case of a split sample, the quantity of seed being submitted.

### **III CONDUCT OF TESTS**

#### 1. Variety collection

A variety collection will be maintained for the purpose of establishing distinctness of the candidate varieties in test. A variety collection may contain both living material and descriptive information. A variety will be included in a variety collection only if plant material is available to make a technical examination.

Pursuant to Article 7 of Council Regulation No. 2100/94, the basis for a collection should be the following:

- varieties listed or protected at the EU level or at least in one of the EEA Member States;
- varieties protected in other UPOV Member States;
- any other variety in common knowledge.

The composition of the variety collection in each Examination Office depends on the environmental conditions in which the Examination Office is located.

Variety collections will be held under conditions which ensure the long term maintenance of each accession. It is the responsibility of Examination Offices to replace reference material which has deteriorated or become depleted. Replacement material can only be introduced if appropriate tests confirm conformity with the existing reference material. If any difficulties arise for the replacement of reference material Examination Offices must inform the CPVO. If authentic plant material of a variety cannot be supplied to an Examination Office the variety will be removed from the variety collection.

2. Material to be examined

Candidate varieties will be directly compared with other candidates for Community plant variety rights tested at the same Examination Office, and with appropriate varieties in the variety collection. When necessary an Examination Office may also include other candidates and varieties. Examination Offices should therefore make efforts to co-ordinate the work with other Offices involved in DUS testing of globe artichoke. There should be at least an exchange of technical questionnaires for each candidate variety, and during the test period, Examination Offices should notify each other and the CPVO of candidate varieties which are likely to present problems in establishing distinctness. In order to solve particular problems Examination Offices may exchange plant material.

3. Characteristics to be used

The characteristics to be used in DUS tests and preparation of descriptions shall be those referred to in the Annex 2. All the characteristics shall be used, providing that observation of a characteristic is not rendered impossible by the expression of any other characteristic, or the expression of a characteristic is prevented by the environmental conditions under which the test is conducted. In the latter case, the CPVO should be informed. In addition the existence of some other regulation e.g. plant health, may make the observation of the characteristic impossible.

The Administrative Council empowers the President, in accordance with Article 23 of Commission Regulation N° 1239/95, to insert additional characteristics and their expressions in respect of a variety.

4. Grouping of varieties

The varieties and candidates to be compared will be divided into groups to facilitate the assessment of distinctness. Characteristics which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly, within a variety and which in their various states of expression are fairly evenly distributed throughout the collection. In the case of continuous grouping characteristics overlapping states of expression between adjacent groups is required to reduce the risks of incorrect allocation of candidates to groups. The characteristics which may be used for grouping are the following:

- (a) Leaf: incisions (10 to 12 leaf stage) (characteristic 9)
- (b) Central flower head: shape in longitudinal section (characteristic 26)
- (c) Central flower head: time of appearance (characteristic 28)
- (d) Outer bract: colour (external side) (characteristic 41)

5. Trial designs and growing conditions

The minimum duration of tests will normally be two independent growing cycles. For vegetatively propagated varieties, the duration of the testing may be reduced to one growing cycle if the results on distinctness and uniformity are conclusive. Tests will be carried out under conditions ensuring normal growth. The size of the plots will be such that plants or parts of plants may be removed for measuring and counting without prejudice to the observations which must be made up to the end of the growing period.

The test design is as follows

As a minimum, each test should include a total of 40 plants which should be divided between two or more replicates.

All observations determined by measurements or counting should be made on 10 plants or parts of 10 plants.

Unless otherwise indicated, all observations on the leaves should be made on fully developed leaves, on the 3<sup>rd</sup> or 4<sup>th</sup> leaf from the base (i.e. when the flower head is about 3 cm in diameter).

Unless otherwise indicated, all observations on the outer bract of the flower head should be made on the 5<sup>th</sup> whorl of bracts from the base of the central flower head.

Unless otherwise indicated, all observations on the inner bracts of the flower head must be made on the central flower head.

6. Special tests

In accordance with Article 83(3) of Council Regulation No. 2100/94 an applicant may claim either in the Technical Questionnaire or during the test that a candidate has a characteristic which would be helpful in establishing distinctness. If such a claim is made and is supported by reliable technical data, a special test may be undertaken providing that a technically acceptable test procedure can be devised.

Special tests will be undertaken, with the agreement of the President of CPVO, where distinctness is unlikely to be shown using the characters listed in the protocol.

7. Standards for decisions

a) **Distinctness**

A candidate variety will be considered to be distinct if it meets the requirements of Article 7 of Council Regulation No. 2100/94.

b) **Uniformity**

For the assessment of uniformity a population standard of 5% with an acceptance probability of at least 95% should be applied for seed propagated varieties, whilst for the assessment of uniformity of vegetatively propagated varieties a population standard of 1% with an acceptance probability of at least 95% should be applied.

Table of maximum numbers of off-types allowed for uniformity standards for seed propagated varieties.

Number of plants	off-types allowed
8-16	2
17-28	3
29-40	4
41-53	5

Table of maximum numbers of off-types allowed for uniformity standards for vegetatively propagated varieties.

Number of plants	off-types allowed
6-35	1
36-82	2

c) **Stability**

A candidate will be considered to be sufficiently stable when there is no evidence to indicate that it lacks uniformity.

**IV REPORTING OF RESULTS**

After each recording season the results will be summarised and reported to the CPVO in the form of a UPOV model interim report in which any problems will be indicated under the headings distinctness, uniformity and stability. Candidates may meet the DUS standards after two growing periods but in some cases three growing periods may be required. When tests are completed the results will be sent by the Examination Office to the CPVO in the form of a UPOV model final report.

If it is considered that the candidate complies with the DUS standards, the final report will be accompanied by a variety description in the format recommended by UPOV. If not the reasons for failure and a summary of the test results will be included with the final report.

The CPVO must receive interim reports and final reports by the date agreed between the CPVO and the examination office.

Interim reports and final examination reports shall be signed by the responsible member of the staff of the Examination Office and shall expressly acknowledge the exclusive rights of disposal of CPVO.

**V LIAISON WITH THE APPLICANT**

If problems arise during the course of the test the CPVO should be informed immediately so that the information can be passed on to the applicant. Subject to prior agreement, the applicant may be directly informed at the same time as the CPVO particularly if a visit to the trial is advisable.

The interim report as well as the final report shall be sent by the Examination Office to the CPVO.

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## ANNEXES TO FOLLOW

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## ANNEX II

Technical Questionnaire



## ANNEX I

### TABLE OF CHARACTERISTICS TO BE USED IN DUS-TEST AND PREPARATION OF DESCRIPTIONS

CPVO N°	UPOV N°	Characteristics	Examples	Note
1. (+)	1.	<b>Plant: height (including central flower head)</b>		
		short	Violet de Provence, Tudela	3
		medium	Blanc Hyerois, Camus de Bretagne, Vertu	5
		tall	Caribou, Popvert, Salambo	7
2.	2.	<b>Plant: number of lateral shoots on main stem</b>		
		few	Blanc Hyerois, Calico, Popvert	3
		medium	Salambo	5
		many	Chrysanthème, Vertu	7
3. (+)	3.	<b>Main stem: height (excluding central flower head)</b>		
		short	Capitan	3
		medium	Castel, Salambo	5
		tall	Caribou	7
4. (+)	4.	<b>Main stem: distance between central flower head and youngest well developed leaf</b>		
		short	Caribou, Violet de Provence	3
		medium	Blanc Hyerois, Tudela	5
		long	Castel	7
5.	5.	<b>Main stem: diameter (at about 10 cm below central flower head)</b>		
		small	Violet de Provence	3
		medium	Castel, Vertu	5
		large	Carène	7

CPVO N°	UPOV N°	Characteristics	Examples	Note
6.	6.	<b>Leaf: attitude (10 to 12 leaf stage)</b>		
		erect	Capitan, Pètre, Vert de Provence	1
		semi-erect	Calico, Camus de Bretagne	3
		horizontal	Blanc Hyerois, Popvert	5
7.	7.	<b>Leaf: long spines</b>		
		absent	Camus de Bretagne, Tudela	1
		present	Spinoso sardo	9
8.	8.	<b>Leaf: length</b>		
		short	Tudela, Violet de Provence	3
		medium	Blanc Hyerois, Chrysanthème, Popvert	5
		long	Camus de Bretagne, Caribou	7
9.	9.	<b>Leaf: incisions (10 to 12 leaf stage)</b>		
		absent	Tudela, Violet de Provence	1
<b>G</b>		present	Camus de Bretagne, Vertu	9
10.	10.	<b>Leaf: number of lobes</b>		
		few	Violet de Provence, Tudela	3
		medium	Blanc Hyerois, Chrysanthème	5
		many	Salanquet	7
11.	11.	<b>Leaf: length of longest lobe</b>		
		short	Vertu	3
		medium	Orlando, Popvert, Sybaris	5
		long		7
12.	12.	<b>Leaf: width of longest lobe</b>		
		narrow	Vertu	3
		medium	Orlando, Popvert, Sybaris	5
		broad		7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
13.	13.	<b>Lobe: shape of tip (excluding terminal lobe)</b>			
		(+)	acute	Camus de Bretagne, Vertu	1
			nearly right angle	Calico, Caribou, Salambo	2
			obtuse		3
14.	14.	<b>Lobe: number of secondary lobes</b>			
		(+)	none or very few	Violet de Provence	1
			few	Camus de Bretagne	3
			medium	Blanc Hyerois, Popvert	5
			many	Orlando, Sybaris	7
		very many		9	
15.	15.	<b>Lobe: shape of tip of secondary lobes</b>			
		(+)	acuminate	Vert de Provence	1
			acute	Blanc Hyerois, Tudela	2
		rounded	Cric, Popvert	3	
16.	16.	<b>Leaf blade: shape in cross section</b>			
			flat	Salambo, Vertu	1
			V shaped	Capitan, Castel	2
17.	17.	<b>Leaf blade: intensity of green colour (upper side)</b>			
			light	Blanc Hyerois, Pêtre	3
			medium	Violet de Provence, Tudela, Vertu	5
		dark	Camus de Bretagne, Cric	7	
18.	18.	<b>Leaf blade: hue of green colour</b>			
			absent	Salambo	1
			yellowish	Blanc Hyerois	2
		greyish	Camus de Bretagne	3	

CPVO N°	UPOV N°	Characteristics	Examples	Note
19.	19.	<b>Leaf blade: intensity of grey hue</b>		
		weak		3
		medium		5
		strong		7
20.	20.	<b>Leaf: hairiness on upper side</b>		
		absent or very weak	Camus de Bretagne, Castel, Vert Globe	1
		weak	Vertu	3
		medium	Carène, Popvert	5
		strong	Violet de Provence	7
very strong		9		
21.	21.	<b>Leaf blade: blistering</b>		
		absent or very weak		1
		weak	Blanc Hyerois, Popvert	3
		medium	Calico, Caribou	5
		strong	Chrysanthème	7
very strong	Cric	9		
22.	22.	<b>Petiole: anthocyanin coloration at base</b>		
		absent or very weak	Capitan, Carène	1
		weak	Castel	3
		medium	Pètre	5
		strong	Violet de Provence	7
very strong		9		
23.	23.	<b>Central flower head: length</b>		
		short	Pètre	3
		medium		5
		long	Vert de Provence	7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
24.	24.	<b>Central flower head: diameter</b>			
		small	Vert de Provence	3	
		medium		5	
		large	Camus de Bretagne, Salambo	7	
25.	25.	<b>Central flower head: size</b>			
		small	Vert de Provence, Violet de Provence	3	
		medium	Blanc Hyerois, Chrysanthème	5	
		large	Castel, Salambo	7	
26.	26.	<b>Central flower head: shape in longitudinal section</b>			
		(+)	circular	Castel, Green Globe	1
			broad elliptic	Chrysanthème, Vert de Provence	2
			ovate	Cric, Salambo	3
			triangular	Tudela, Violet de Provence	4
<b>G</b>		transverse broad elliptic	Carène, Pètre	5	
27.	27.	<b>Central flower head: shape of tip</b>			
			acute	Violet de Provence	
			rounded	Camus de Bretagne	2
			flat	Chrysanthème	3
		depressed	Carène, Pètre	4	
28.	28.	<b>Central flower head: time of appearance</b>			
			early	Chrysanthème, Tudela	3
			medium	Blanc Hyerois	5
<b>G</b>		late	Camus de Bretagne	7	

CPVO N°	UPOV N°	Characteristics	Examples	Note
29.	29.	<b>Central flower head: time of beginning of opening</b>		
		early	Chrysanthème, Vert de Provence	3
		medium	Camus de Bretagne	5
		late	Popvert, Tudela	7
30.	30.	<b>First flower head on lateral shoot: length</b>		
		short	Pètre, Popvert	3
		medium		5
		long	Vert de Provence	7
31.	31.	<b>First flower head on lateral shoot: diameter</b>		
		small	Vert de Provence	3
		medium	Blanc Hyerois	5
		large	Salambo	7
32.	32.	<b>First flower head on lateral shoot: size</b>		
		small	Violet de Provence	3
		medium	Chrysanthème	5
		large	Blanc Hyerois, Castel	7
33.	33.	<b>First flower head on lateral shoot: shape in longitudinal section</b>		
		(+) circular	Castel, Salambo	1
		broad elliptic	Cric, Blanc Hyerois	2
		ovate	Velours	3
		triangular	Violet de Provence	4
		transverse broad elliptic	Pètre, Popvert	5
34.	34.	<b>First flower head on lateral shoot: degree of opening</b>		
		weak	Salambo	3
		medium	Blanc Hyerois	5
		strong	Chrysanthème	7

CPVO N°	UPOV N°	Characteristics	Examples	Note	
35.	35.	<b>Outer bract: length of base</b>			
		(+)	short	Orlando	3
			medium	Blanc Hyerois, Popvert, Vertu	5
			long	Pètre	7
36.	36.	<b>Outer bract: width of base</b>			
		(+)	narrow	Orlando	3
			medium	Blanc Hyerois, Popvert, Vertu	5
			broad	Pètre	7
37.	37.	<b>Outer bract: thickness at base</b>			
		(+)	thin		3
			medium	Blanc Hyerois, Popvert, Vertu	5
			thick	Pètre	7
38.	38.	<b>Outer bract: main shape</b>			
			broader than long	Calico, Cric, Pètre	1
			as broad as long	Camus de Bretagne, Pètre	2
			longer than broad	Vert de Provence, Vertu	3
39.	39.	<b>Outer bract: shape of apex</b>			
			acute	Spinoso Sardo	1
			flat	Talpiot	2
			emarginate	Chrysanthème	3
40.	40.	<b>Outer bract: depth of emargination</b>			
			shallow	Castel, Violet de Provence	3
			medium	Blanc Hyerois	5
			deep	Chrysanthème	7

CPVO N°	UPOV N°	Characteristics	Examples	Note
41.	41.	<b>Outer bract: colour (external side)</b>		
		green	Blanc Hyerois, Tudela, Vert de Provence	1
		green striped with violet	Violet de Provence	2
		violet striped with green	Chrysanthème	3
		mainly violet	Cric, Salambo	4
G		entirely violet	Velours	5
42.	42.	<b>Outer bract: hue of secondary colour (as 41)</b>		
		absent	Calico	1
		bronze	Blanc Hyerois, Sakiz	2
		grey	Camus de Bretagne, Popvert	3
43.	43.	<b>Outer bract: reflexing of tip</b>		
		(+)	absent	Castel, Salambo
		present	Calico, Chrysanthème	9
44.	44.	<b>Outer bract: size of spine</b>		
		absent or very small	Calico	1
		small	Chrysanthème, Vertu	3
		medium	Violet de Provence	5
		large		7
		very large	Spinoso Sardo	9
45.	45.	<b>Outer bract: mucron</b>		
		(+)	absent	Chrysanthème, Pètre
		present	Camus de Bretagne	9



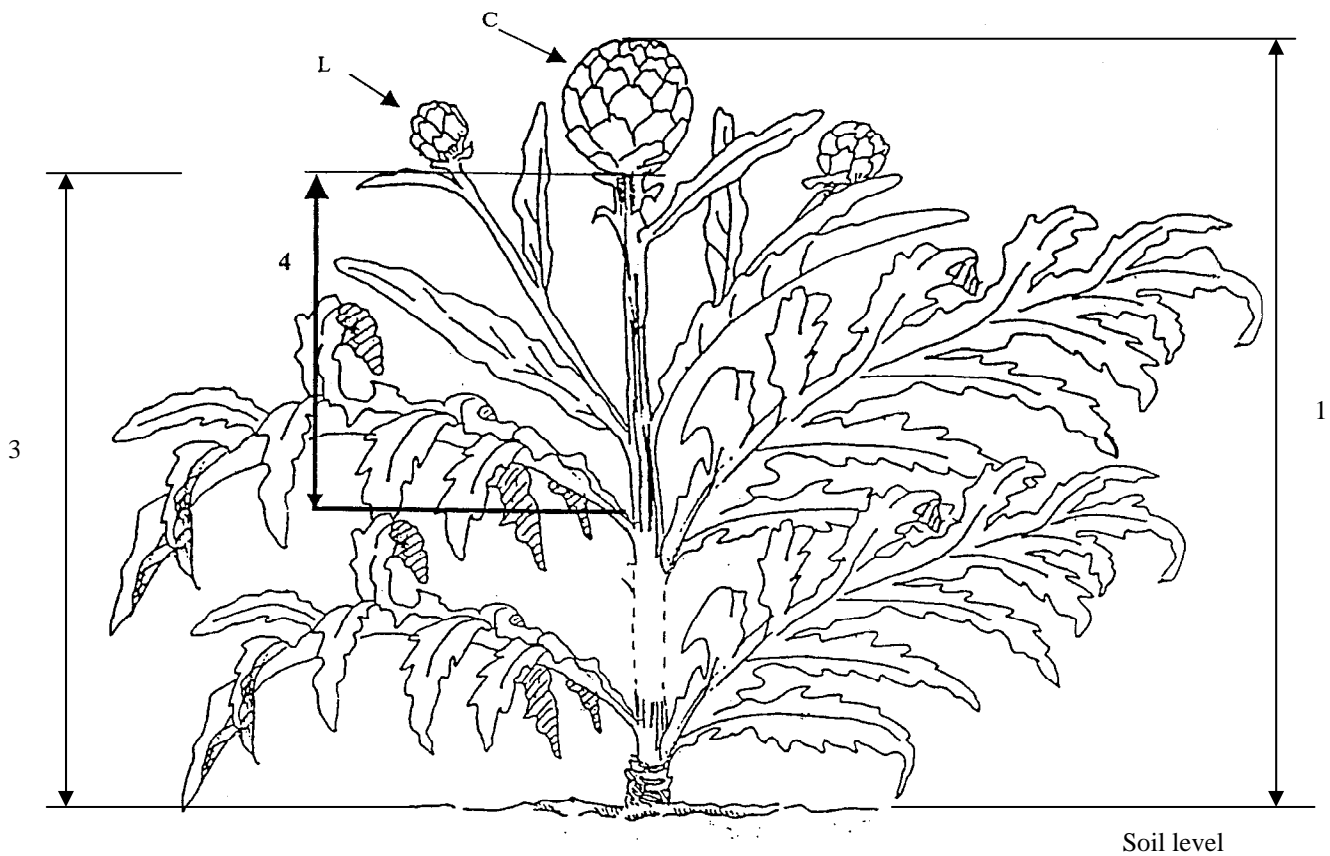
CPVO N°	UPOV N°	Characteristics	Examples	Note
46.	46.	<b>Central flower head: anthocyanin coloration of inner bracts</b>		
		absent or very weak	Popvert	1
		weak	Castel	3
		medium	Blanc Hyerois	5
		strong	Chrysanthème	7
		very strong	Salambo	9
47. (+)	47.	<b>Central flower head: density of inner bracts</b>		
		sparse	Camard, Calico	3
		medium	Camus de Bretagne	5
		dense	Cacique, Compact	7
48. (+)	48.	<b>Receptacle: diameter</b>		
		small	Violet de Provence	3
		medium	Camus de Bretagne	5
		large	Capitan, Salambo	7
49. (+)	49.	<b>Receptacle: thickness</b>		
		thin	Blanc Hyerois, Tudela	3
		medium	Pètre	5
		thick	Camus de Bretagne, Castel	7
50. (+)	50.	<b>Receptacle: shape in longitudinal section</b>		
		flat	Carène	1
		slightly depressed	Camus de Bretagne, Salambo	2
		strongly depressed	Blanc Hyerois, Chrysanthème	3
51.	51.	<b>Tendency to produce lateral shoots at base</b>		
		weak	Blanc Hyerois, Castel, Vertu	3
		medium	Violet de Provence, Chrysanthème, Popvert	5
		strong	Cacique, Calico	7

## EXPLANATIONS AND METHODS

Ad. 1, 3, 4: Plant: height (including central flower head) (1);

Main stem: height (excluding central flower head) (3);

Main stem: distance between flower head and last developed leaf (4)



C: Central flower head

L: First flower head on lateral shoot

Ad. 13: Lobe: shape of tip (excluding terminal lobe)

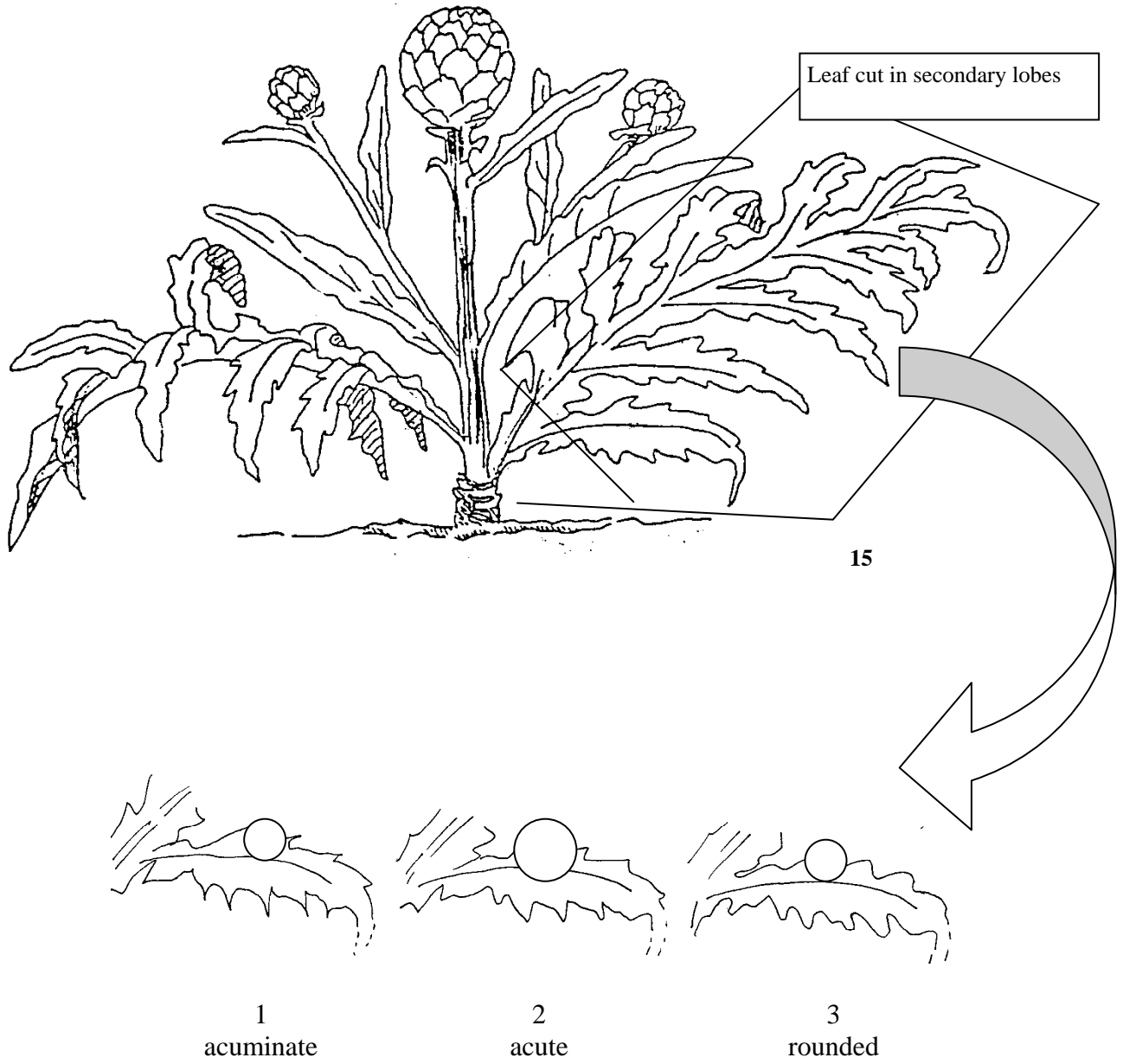


1  
acute

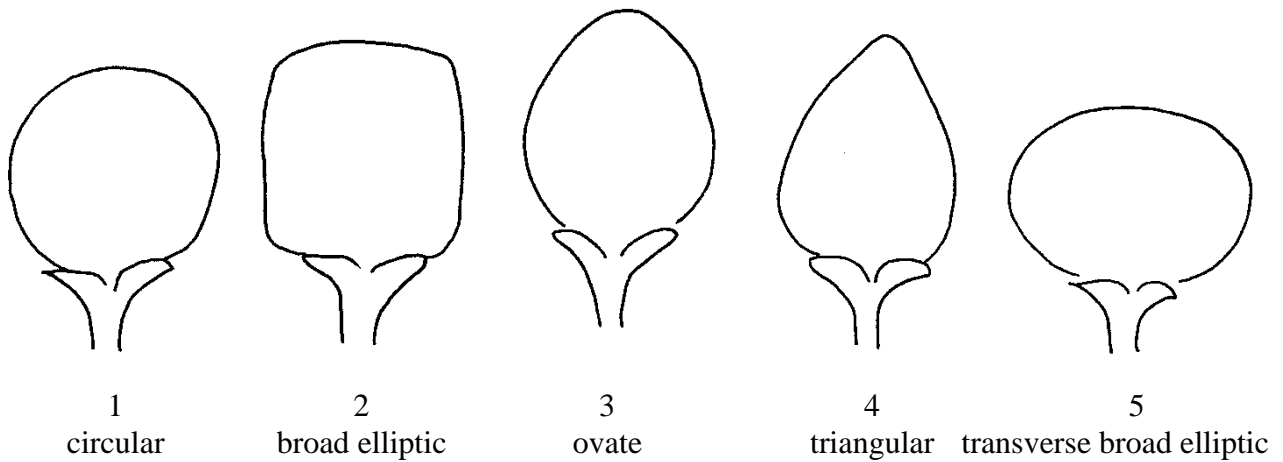
2  
nearly right angle

3  
obtuse

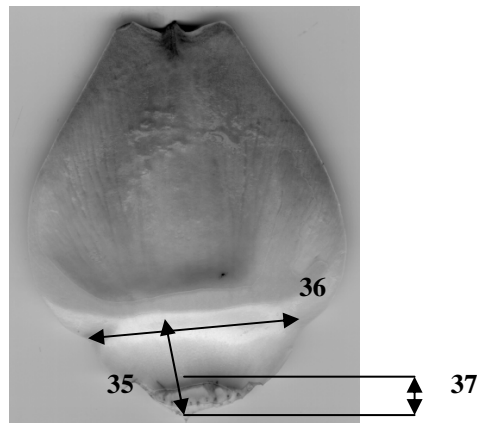
Ad. 14, 15: Lobe: number (14) and shape of tip (15) of secondary lobes (on the 3<sup>rd</sup> – 4<sup>th</sup> whorl of leaves)



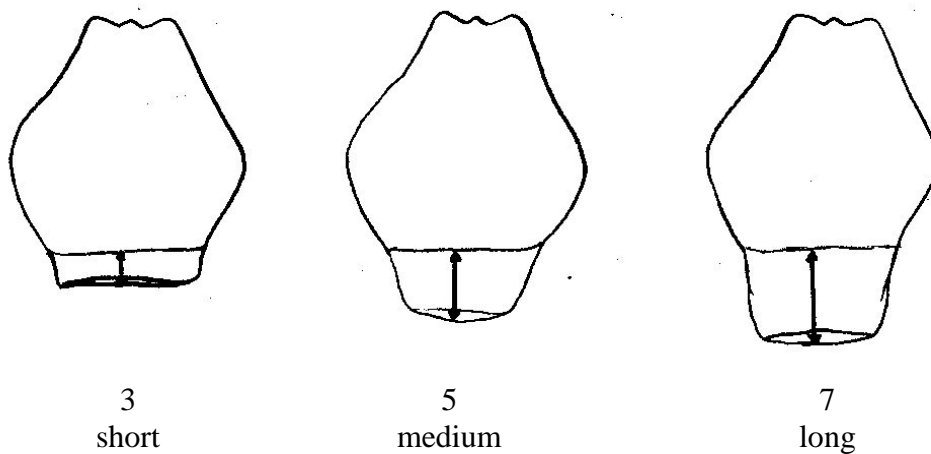
Ad. 26, 33: Central flower head (26) and First flower head on lateral shoot (33): shape in longitudinal section



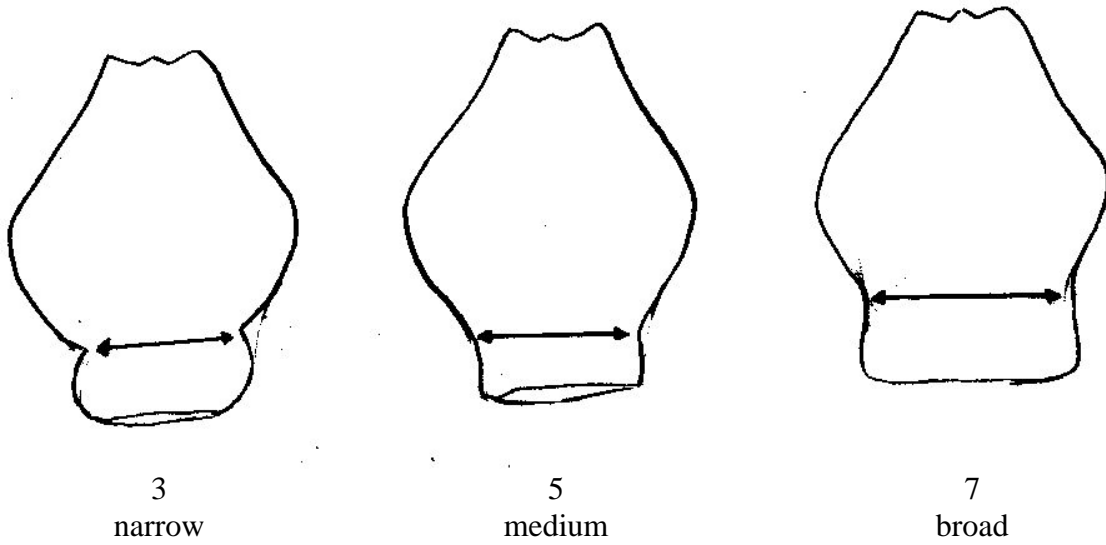
Ad. 35, 36, 37: Outer bracts: length of base (35), width of base (36), thickness at base (37)



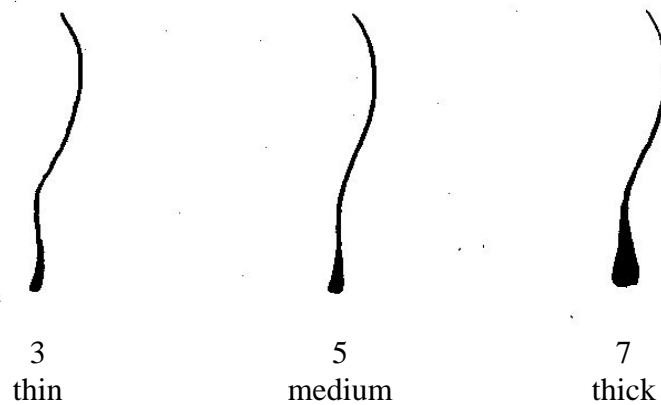
Ad. 35: Outer bract : length of base



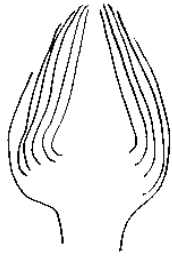
Ad. 36: Outer bract : width of base



Ad. 37: Outer bract : thickness at base (bract in profile)



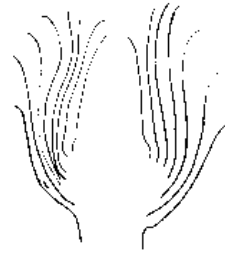
Ad. 43: Outer bract: reflexing at tip



1  
absent



a



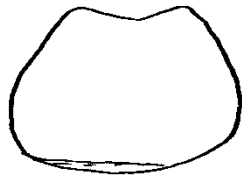
b

9  
present

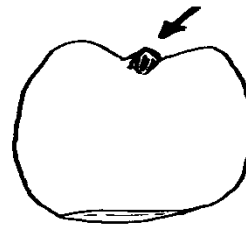
a: reflexing at tip (on Chrysanthème)

b: reflexing at tip (on Calico)

Ad. 45: Outer bract: mucron

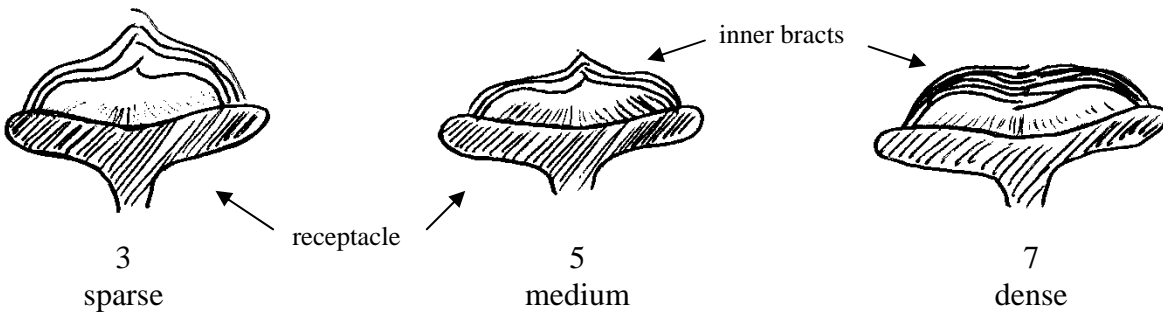


1  
absent



9  
present

Ad. 47: Central flower head: density of inner bracts

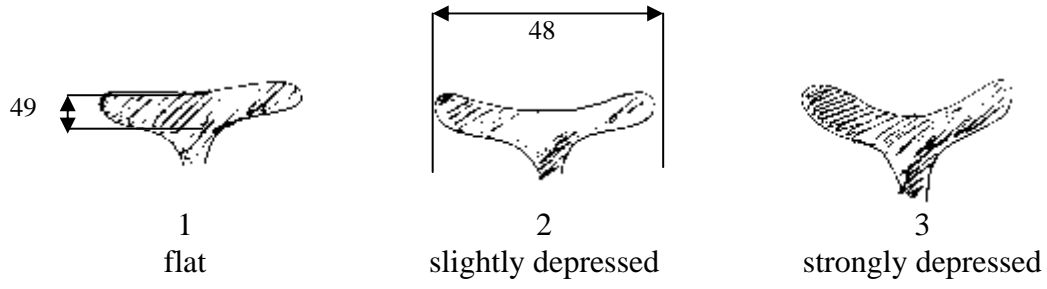


3  
sparse

5  
medium

7  
dense

Ad. 48, 49, 50: Receptacle: diameter (48), thickness (49), shape in longitudinal section (50)



50

## LITERATURE

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## ANNEX II



European Union  
Community Plant Variety Office

### TECHNICAL QUESTIONNAIRE

to be completed in connection with an application for Community Plant Variety Rights  
Please answer all questions. A question without any answer will lead to a non-attribution  
of an application date. In cases where a field / question is not applicable, please state so.

1. **Botanical taxon:** Name of the genus, species or sub-species to which the variety belongs and common name

*Cynara scolymus L. (Cynara cardunculus var. scolymus L.)*

GLOBE ARTICHOKE

2. **Applicant(s):** Name(s) and address(es), phone and fax number(s), Email address, and where appropriate name and address of the procedural representative

3. **Variety denomination**

a) Where appropriate proposal for a variety denomination:

b) Provisional designation (breeder's reference):

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

**4.1 Breeding, maintenance and reproduction of the variety**

Please indicate breeding scheme, parents, other relevant information

(a)

(i) hybrid..... [ ]

(ii) open-pollinated variety ..... [ ]

(iii) parent line ..... [ ]

(iv) other type (specify)..... [ ]

(b)

(i) in seed propagated ..... [ ]

(ii) vegetatively propagated..... [ ]

(c) Other information on genetic origin and breeding method..... [ ]

**4.2 Geographical origin of the variety:** the region and the country in which the variety was bred or discovered and developed

<p><b>4.3 Shall the information on data relating to components of hybrid varieties including data related to their cultivation be treated as confidential?</b></p> <p>[ ] YES                      [ ] NO</p> <p>If yes, please give this information on the attached form for confidential information.</p> <p>If no, please give information on data relating to components of hybrid varieties including data related to their cultivation:</p> <p>Breeding scheme (indicate female component first)</p>			
<p><b>5. Characteristics of the variety to be indicated</b> (the number in brackets refers to the corresponding characteristic in the CPVO Protocol; please mark the state of expression which best corresponds).</p>			
	<b>Characteristics</b>	<b>Example varieties</b>	<b>Note</b>
<b>5.1 (9)</b>	<b>Leaf: incisions (10 to 12 leaf stage)</b>		
	absent	Tudela, Violet de Provence	1 [ ]
	present	Camus de Bretagne, Vertu	9 [ ]
<b>5.2 (26)</b>	<b>Central flower head: shape in longitudinal section</b>		
	circular	Castel, Green Globe	1 [ ]
	broad elliptic	Chrysanthème, Vert de Provence	2 [ ]
	ovate	Cric, Salambo	3 [ ]
	triangular	Tudela, Violet de Provence	4 [ ]
	transverse broad elliptic	Carène, Pètre	5 [ ]
<b>5.3 (27)</b>	<b>Central flower head: shape of tip</b>		
	acute	Violet de Provence	1 [ ]
	rounded	Camus de Bretagne	2 [ ]
	flat	Chrysanthème	3 [ ]
	depressed	Carène, Pètre	4 [ ]

Characteristics		Example varieties	Note
<b>5.4</b> (28)	<b>Central flower head: time of appearance</b>		
	early	Chrysanthème, Tudela	3 [ ]
	medium	Blanc Hyèrois	5 [ ]
	late	Camus de Bretagne	7 [ ]
<b>5.5</b> (41)	<b>Outer bract: colour (external side)</b>		
	green	Blanc Hyèrois, Tudela, Vert de Provence	1 [ ]
	green striped with violet	Violet de Provence	2 [ ]
	violet striped with green	Chrysanthème	3 [ ]
	mainly violet	Cric, Salambo	4 [ ]
	entirely violet	Velours	5 [ ]
<b>6. Similar varieties and differences from these varieties:</b>			
Denomination of similar variety	Characteristic in which the similar variety is different <sup>1)</sup>	State of expression of similar variety	State of expression of candidate variety
<p><sup>1)</sup> In the case of identical states of expressions of both varieties, please indicate the size of the difference</p>			
<b>7. Additional information which may help to distinguish the variety</b>			
<b>7.1 Resistance to pests and diseases</b>			

## 7.2 Special conditions for the examination of the variety

Main use:

a) Fresh market

(i) large flower head .....[ ]

(ii) small flower head.....[ ]

b) Canning

(i) receptacle .....[ ]

(ii) bottom.....[ ]

(iii) pickling artichoke .....[ ]

c) Industrial use

(i) leaf extraction large flower head .....[ ]

(ii) biomass large flower head .....[ ]

d) Other

[ ] YES, please specify

[ ] NO

## 7.3 Other information

[ ] YES, please specify

[ ] NO

**8. GMO-information required**

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.

YES                       NO

If yes, please add a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

**9. Information on plant material to be examined**

**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)      | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (b) Chemical treatment (e.g. growth retardant or pesticide) | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (c) Tissue culture  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (d) Other factors   | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Please provide details of where you have indicated "Yes":

I/we hereby declare that to the best of my/our knowledge the information given in this form is complete and correct.

Date

Signature

Name

[End of document]