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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE**

Exhibit C

**OBJECTIVE DESCRIPTION OF VARIETY
Endive (*Cichorium endivia* L.)**

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)		FOR OFFICIAL USE ONLY
		PVPO NUMBER

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place numbers in the boxes to designate the character (expression(s) that best describe the submitted variety. Quantitative data should be based on the typical performance of the variety and the check variety to which it is compared. Data should be taken on spaced plants that have not been tied or covered. Include leading zeroes when necessary (e.g.,) for quantitative data. Plant colors may be designated by using any recognized color chart, e.g., the Royal Horticultural Society Colour Chart or the U.S. National Bureau of Standards Color Kit (see "References"). Cite color names or numbers and specify the chart used. Complete this form as fully as possible, so that the variety may be adequately distinguished from others of its kind.

1. TYPE:

1 = Escarole (Broad-Leaf) 2 = Curly-Leaf Endive 3 = Other (Specify) _____

2. ADAPTATION:

Region:

1 = Northeast/mid-Atlantic 2 = Southeast 3 = Central States
4 = West/southwest 5 = Widely adapted

Soil Type:
1 = Organic 2 = Mineral

Note: For quantitative data, use the following check varieties (circle the variety used): Escarole type: "Full Heart Batavian"; Curly endive: "Green Curled Ruffec".

3. PLANT (When Vegetative Rosette is Fully Developed):

Habit:
1 = Spreading ("Green Curled Ruffec") 2 = Intermediate ("Full Heart") 3 = Erect ("Deep Heart Fringed")

Head:
1 = Concave or flat ("Breedblad Volhart Winter") 2 = Rounded ("Growers Giant")

Size: 1 = Small ("Louviere") 2 = Medium ("Full Heart Batavian") 3 = Large ("Salad King")

g: Weight of marketable head g: Weight of head, check variety

cm: Width of rosette cm: Width of rosette, check variety

Heart (refers to Tender Inner Leaves):
1 = Hollow ("D'hiver de Provence") 2 = Moderate ("Salad King", "Broad Leaved Batavian") 3 = Full ("Florida Deep Heart")

4. ROOT:

mm. Diameter of Tap Root (at soil line)

mm. Diameter of Tap Root, Check Variety

5. LEAF (Largest Outer Leaves):

Blade:
 1 = Smooth ("Ambio") 2 = Slightly Blistered ("Florida Deep Heart") 3 = Distinctly Blistered or Crumpled

Surface:
 1 = Dull or Matte 2 = Glossy

Attitude:
 1 = Mostly Straight 2 = Slightly Incurved 3 = Strongly Incurved

Edge of Leaf:
 1 = Flat or Straight 2 = Wavy 3 = Curly

Margin:
 1 = Entire 2 = Shallowly Toothed ("Full Heart") 3 = Moderately Cut and Curled ("Deep Hearted Fringed")
 4 = Deeply and Finely Cut and Curled ("Green Curled Ruffec")

cm Length

cm Length, Check Variety

cm Width, Including Lobes if any

cm Width, Check Variety

No. of Major Lobes

No. of Major Lobes, Check Variety

Color of Blade: _____ Color, Check Variety _____

Color Chart Used: _____

Color of Midrib:
 1 = White 2 = Yellow 3 = Pinkish 4 = Green

LEAF: Inner, or "Heart" Leaves

Color:
 1 = White to Cream 2 = Yellow 3 = Pale Green 4 = Medium Green

6. INFLORESCENCE (When Flower Heads are Fully Expanded):

mm Width of Flower Head mm Width of Flower Head, Check Variety

No. of Flowers per Head No. of Flowers per Head, Check Variety

Flower Color: 1 = Blue-purple ("Full Heart", "Salad King") 2 = Pink ("Rosabella") 3 = White ("Westlandia")

7. DISEASE RESISTANCE (0 = Untested; 1 = Susceptible; 2 = Resistant):

- | | |
|--|---|
| <input type="checkbox"/> Aster Yellows | <input type="checkbox"/> Bidens Mottle Virus |
| <input type="checkbox"/> Broad Bean Wilt Virus | <input type="checkbox"/> Lettuce Mosaic Virus |
| <input type="checkbox"/> Cucumber Mosaic Virus | <input type="checkbox"/> Turnip Mosaic Virus |
| <input type="checkbox"/> Spotted Wilt Virus | <input type="checkbox"/> Bottom Rot (<i>Rhizoctonia solani</i>) |
| <input type="checkbox"/> Bacterial Rot (<i>Pseudomonas cichorii</i>) | <input type="checkbox"/> Leaf Spot (<i>Alternaria sonchi</i>) |
| <input type="checkbox"/> Root Rot (<i>Botrytis</i> spp.) | <input type="checkbox"/> Powdery Mildew (<i>Erysiphe cichoracearum</i>) |
| <input type="checkbox"/> Gray Mold Rot (<i>Botrytis cinerea</i>) | <input type="checkbox"/> <i>Sclerotinia</i> rot |
| <input type="checkbox"/> Leaf Spot (<i>Septoria endiviae</i>) | <input type="checkbox"/> Other (Specify) _____ |

8. PEST RESISTANCE (0 = Untested; 1 = Susceptible; 2 = Resistant):

- Aphid (spp.)
- Cabbage Looper (*Trichoplusia ni*)
- Nematodes (*Specify genus and species if known*) _____
- Other (Specify) _____

9. OTHER RESISTANCE (0 = Untested; 1 = Susceptible; 2 = Resistant):

Tipburn when Grown at _____ in the Month(s) of _____
 (locality)

Brown Heart when Grown at _____ in the Month(s) of _____
 (locality)

10. MATURITY: Give Location of Trial(s): Winter Crop _____ Summer Crop _____
 and Date(s) Seed Sown: Winter Crop _____ Summer Crop _____
 (Considering the Date of Seeding as Day Zero, Fill in the Table Below Based Upon Your Trial(s).)

No. Days to Head Maturity (Winter Crop)	Month Harvestable	No. Days to Head Maturity (Summer Crop)	Month Harvestable	No. Days to Seedstalk Emergence		No. Days to First Open Flowers	
				Winter Crop	Summer Crop	Winter Crop	Summer Crop
Submitted (new Variety)							
Check Variety							

References

Ryder, E.J. 1979. Leafy Salad Vegetables. AVI Publishing Co., Inc., Westport, CT. 266 p. illus. (ISBN 0-87055-323-2).

Seeling, R. A. 1964, Fruit and Vegetable Facts and Pointers: Endive – Escarole – Chicory. United Fresh Fruit and Vegetable Association, Alexandria, VA 8 p. illus.

Turchi, A. 1977. La Coltivazione delle Idivie. Edizioni Agricole Universale Edagricole. 40 p. illus.

U. S. National Bureau of Standards Color Kit No. 2107, obtainable from the Office of Standard Reference Materials, National Bureau of Standards, Washington, D.C. 20234.