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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

Exhibit C

**OBJECTIVE DESCRIPTION OF VARIETY
Artichoke (*Cynara scolymus* 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:

In the spaces on the left, enter the appropriate numbers that describe the characteristics of the application variety. On the right, enter the appropriate numbers that describe the characteristics of the most similar comparison variety. Several seed propagated check varieties are "Green Globe", "Talpiot", and "Texas Hill". Right justify whole numbers by adding leading zeros if necessary. The variety that you choose for comparison should be the most similar one in terms of overall morphology, background and maturity. The comparison variety should be grown in field trials with the application variety for 2-3 location/years (environments) in the region and season of best adaptability. At least one year of trials should be conducted within the United States of America. In general, measurements of quantitative traits should be taken **from one trial on 15-25 randomly selected plants or plant parts** to obtain averages and statistics that describe a typical field of the variety. (Form technical content last updated April 1993.)

<p>1. MARKET MATURITY:</p> <p>___ ___ No. Days from Seeding to 1st Head Harvest</p> <p>___ ___ No. Days in Harvest Period</p>	<p>COMPARISON VARIETY NAME _____</p> <p>___ ___ Days Seeding to Harvest</p> <p>___ ___ Days Harvest Period</p>
<p>2. PLANT: (Harvest Stage):</p> <p>___ ___ cm Plant Height</p> <p>___ Plant Habit: 1 = Upright 2 = Intermediate 3 = Broad</p> <p>___ ___ No. Axillary Shoots</p>	<p>___ ___ cm Plant Height</p> <p>___ Plant Habit</p> <p>___ ___ Axillary Shoots</p>
<p>3. LEAF: (Harvest Stage)</p> <p>___ Leaf Color: 1 = Light Green 2 = Medium Green 3 = Dark Green 4 = Gray-Green</p> <p>___ Leaf Spines 1 = None 2 = Few 3 = Many</p> <p>___ cm Blade Length</p> <p>___ cm Blade Width</p> <p>___ cm Petiole Length</p> <p>___ Leaf Shape: 1 = Entire 2 = Slightly Lobed 3 = Deeply Lobed</p> <p>___ Leaf Shape Variability: 1 = Slight 2 = Moderate 3 = High</p>	<p>___ Leaf Color</p> <p>___ Leaf Spines</p> <p>___ cm Blade Length</p> <p>___ cm Blade Width</p> <p>___ cm Petiole Length</p> <p>___ Leaf Shape</p> <p>___ Leaf Shape Variability</p>
Application Variety	Comparison Variety

Application Variety	Comparison Variety
<p>4. PRIMARY FLOWER HEAD: (Harvest Stage)</p> <p>___ Primary Head Shape 1 = Cylindrical 2 = Conical 3 = Ovoid 4 = Ellipsoid</p> <p>___ cm Head Base Diameter</p> <p>___ cm Head Length or Depth</p> <p>___ Bract Tightness: 1 = Loose 2 = Moderately Compact 3 = Compact</p> <p>___ Bract Luster: 1 = Dull 2 = Shiny</p> <p>___ External Bract Main Color: 1 = Light Green 2 = Mid Green 3 = Dark Green 4 = Purple 5 = Other (specify) _____</p> <p>___ External Bract Secondary Color: 1 = None 2 = Purple Tint 3 = Brown Tint 4 = Green Tint 5 = Purple-brown Tint 6 = Other (specify) _____</p> <p>___ Location of Secondary Color: 1 = Tip 2 = Center 3 = Base 4 = Throughout</p> <p>___ Internal Bract Color: 1 = Whitish-green 2 = Yellow-green 3 = Straw</p> <p>___ Bract Spines: 1 = None 2 = Few 3 = Many</p> <p>___ Bract Shape: 1 = Round 2 = Oval 3 = Elongated</p> <p>___ Bract Tip Shape: 1 = Entire 2 = Slightly Notched 3 = Deeply Notched</p> <p>___ mm Bract Length</p> <p>___ mm Bract Width</p> <p>___ cm Peduncle Length</p> <p>___ mm Peduncle Diameter</p> <p>___ gm Weight per Primary Head</p> <p>___ No. Primary Heads/Plant</p>	<p>___ Primary Head Shape</p> <p>___ cm Head Base Diameter</p> <p>___ cm Head Length or Depth</p> <p>___ Bract Tightness</p> <p>___ Bract Luster</p> <p>___ External Bract Main Color</p> <p>___ External Bract Secondary Color</p> <p>___ Location of Secondary Color</p> <p>___ Internal Bract Color</p> <p>___ Bract Spines</p> <p>___ Bract Shape</p> <p>___ Bract Tip Shape</p> <p>___ mm Bract Length</p> <p>___ mm Bract Width</p> <p>___ cm Peduncle Length</p> <p>___ mm Peduncle Diameter</p> <p>___ gm Weight per Primary Head</p> <p>___ No. Primary Heads/Plant</p>
<p>5. SECONDARY FLOWER HEAD:</p> <p>___ gm Weight per Secondary Head</p> <p>___ No. Secondary Heads/Plant</p>	<p>___ gm Secondary Head Weight</p> <p>___ Secondary Heads/Plant</p>
<p>6. FLORET:</p> <p>___ Color: 1 = White 2 = Pink 3 = Red 4 = Purple 5 = Blue 6 = Other _____</p> <p>___ mm Floret Diameter</p> <p>___ No. Florets per Primary Head</p>	<p>___ Floret Color</p> <p>___ mm Floret Diameter</p> <p>___ Florets/ Primary Head</p>
<p>7. ACHENE:</p> <p>___ Achene Color: 1 = Monocolor 2 = Bicolor</p> <p>___ Achene Color Pattern: 1 = Solid 2 = Speckling 3 = Striping 4 = Other _____</p> <p>___ Achene Primary Color: 1 = Tan 2 = Brown 3 = Green 4 = Black 5 = Gray 6 = Other _____</p> <p>___ Achene Secondary Color: (Choose from above – specify other) _____</p> <p>___ gm Weight per 1000 Achenes</p>	<p>___ Achene Color</p> <p>___ Color Pattern</p> <p>___ Primary Color</p> <p>___ Secondary Color</p> <p>___ gm /1000 Achenes</p>
Application Variety	Comparison Variety

Application Variety	Comparison Variety
<p>8. ANTHOCYANIN: (1 = Absent; 2 = Noticeable; 3 = Very Noticeable)</p> <p><input type="checkbox"/> Leaf Petiole</p> <p><input type="checkbox"/> Leaf Blade</p> <p><input type="checkbox"/> Peduncle</p> <p><input type="checkbox"/> Petal</p> <p><input type="checkbox"/> Head Bract</p> <p><input type="checkbox"/> Bract Spine</p> <p><input type="checkbox"/> Leaf Spine</p> <p><input type="checkbox"/> Pappus</p> <p><input type="checkbox"/> Achene</p> <p><input type="checkbox"/> Other (Specify) _____</p>	<p><input type="checkbox"/> Leaf Petiole</p> <p><input type="checkbox"/> Leaf Blade</p> <p><input type="checkbox"/> Peduncle</p> <p><input type="checkbox"/> Petal</p> <p><input type="checkbox"/> Head Bract</p> <p><input type="checkbox"/> Bract Spine</p> <p><input type="checkbox"/> Leaf Spine</p> <p><input type="checkbox"/> Pappus</p> <p><input type="checkbox"/> Achene</p> <p><input type="checkbox"/> Other (Specify) _____</p>
<p>9. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)</p> <p><input type="checkbox"/> Botrytis Rot (<i>Botrytis cinerea</i>)</p> <p><input type="checkbox"/> Curly Dwarf Virus</p> <p><input type="checkbox"/> Black Tip Syndrome</p> <p><input type="checkbox"/> Other _____</p>	<p><input type="checkbox"/> Botrytis Rot</p> <p><input type="checkbox"/> Curly Dwarf Virus</p> <p><input type="checkbox"/> Black Tip Syndrome</p> <p><input type="checkbox"/> Other _____</p>
<p>10. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)</p> <p><input type="checkbox"/> Plume Moth (<i>Platyptilia carduidactyla</i>)</p> <p><input type="checkbox"/> Aphid</p> <p><input type="checkbox"/> 2-Spotted Spider Mite</p> <p><input type="checkbox"/> Chrysanthemum Leafminer</p> <p><input type="checkbox"/> Cribate Weevil</p> <p><input type="checkbox"/> Other _____</p>	<p><input type="checkbox"/> Plume Moth</p> <p><input type="checkbox"/> Aphid</p> <p><input type="checkbox"/> 2-Spotted Spider Mite</p> <p><input type="checkbox"/> Chrysanthemum Leafminer</p> <p><input type="checkbox"/> Cribate Weevil</p> <p><input type="checkbox"/> Other _____</p>
<p>11. COMMENTS (continue in Exhibit D):</p>	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- Ryder, E.J., N.E. De Vos, and M.A. Bari. 1983. The globe artichoke (*Cynara scolymus* L.) HortScience 18(5):646-653.
- Basnitzki, Y. and D. Zohary. 1987. A seed-planted cultivar of globe artichoke. HortScience 22(4):678-679.
- Dellacecca, V., V. Magnifico, V. Marzi, E. Porceddu, and G. Mugnozza. 1974. Contributo alla conoscenza delle varietà di cardiofo coltivate nel mondo (Description of artichoke varieties cultivated in the world). Nuovi Studi sul Carciofo. Paper from Second International Congress on Artichoke Studies pp. 199-315.