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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
Broccoli (*Brassica oleracea* var. *italica* 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

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. 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. 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.

A. REGION OF ADAPTATION (Area where best adapted in USA)

___ 1 = Northwest 2 = North Central 3 = Northeast 4 = Southeast
___ 5 = Southwest 6 = Most Regions 7 = Pacific Coast 8 = Other _____

LOCATION and YEAR(S) of Data Collection for this form _____

Comparison variety name _____

___ Region of Adaptation

B. MATURITY (Main Crop at 50% Harvest)

___ Harvest Season: 1 = Fall 2 = Fall/Winter 3 = Winter/Spring
 4 = Spring/Summer 5 = Summer 6 = Summer/Fall

Spring Planted:

___ Days from Direct Seeding to 50% Harvest

___ Days from Transplanting to 50% Harvest

___ Length of Harvest Period in days

Fall Planted:

___ Days from Direct Seeding to 50% Harvest

___ Days from Transplanting to 50% Harvest

___ Length of Harvest Period in days

___ Time of beginning of flowering (50% of plants with at least 10% flowers):

1 = Early 2 = Medium-Early 3 = Medium
4 = Medium-Late 5 = Late

MATURITY

___ Harvest Season

Spring Planted:

___ Days from Direct Seeding

___ Days from Transplanting

___ Length of Harvest Period

Fall Planted:

___ Days from Direct Seeding

___ Days from Transplanting

___ Length of Harvest Period

___ Time of beginning of flowering

Application Variety

Comparison Variety

Application Variety	Comparison Variety
<p>F. HEAD (At Market Maturity)</p> <p>___ ___ cm Diameter (at widest point)</p> <p>___ ___ cm Depth</p> <p>___ ___ gm Weight (market trimmed)</p> <p>___ Head Color: 1 = Light Green 2 = Medium Green 3 = Dark Green 4 = Blue-Green 5 = Purple 6 = Other (specify) _____</p> <p>Color Chart Name _____ Color Chart Code _____</p> <p>___ Head Shape: (* look at Figure 1 at the end of this form*) 1 = Circular 2 = Transverse Broad Elliptic 3 = Transverse Elliptic 4 = Transverse Elliptic Narrow</p> <p>___ Dome Shape: (*Look at Figure 1) 1 = Domed 2 = Semi-domed 3 = Deep Domed</p> <p>___ Head Size: 1 = Small 2 = Medium 3 = Large</p> <p>___ Compactness: 1 = Long Pedicels (Loose) 2 = Medium 3 = Short Pedicels (Tight)</p> <p>___ Surface Knobbling: 1 = Fine 2 = Medium 3 = Coarse</p> <p>___ Bead Size: 1 = Small 2 = Medium 3 = Large</p> <p>___ Flower Buds: 1 = Even in size 2 = Uneven in size (cateye)</p> <p>Anthocyanin Coloration: 1 = Absent 2 = Present</p> <p>___ Leaf Axils</p> <p>___ Leaf Veins</p> <p>___ Leaf Blade</p> <p>___ Entire Plant</p> <p>___ Leaf Petiole</p> <p>___ Head Leaves: 1 = Absent 2 = Present, Inconspicuous 3 = Present, Conspicuous</p> <p>___ Color of Head Leaves: 1 = White 2 = Green 3 = Red 4 = Purple 5 = Other _____</p> <p>Color Chart Name _____ Color Chart Code _____</p> <p>___ Secondary Heads: 1 = Completely absent 2 = Basal 3 = Combination 4 = Axillary along entire main stem up to main head</p> <p>___ Prominence of Secondary Heads: 1 = Weak 2 = Intermediate 3 = Strong</p> <p>___ Number of Secondary Heads</p>	<p>HEAD</p> <p>___ ___ cm Diameter</p> <p>___ ___ cm Depth</p> <p>___ ___ gm Weight</p> <p>___ Head Color</p> <p>Color Chart Code _____</p> <p>___ Head Shape</p> <p>___ Dome Shape</p> <p>___ Head Size</p> <p>___ Compactness</p> <p>___ Surface Knobbling</p> <p>___ Bead Size</p> <p>___ Flower Buds</p> <p>Anthocyanin Coloration</p> <p>___ Leaf Axils</p> <p>___ Leaf Veins</p> <p>___ Leaf Blade</p> <p>___ Entire Plant</p> <p>___ Leaf Petiole</p> <p>___ Head Leaves</p> <p>___ Color of Head Leaves</p> <p>Color Chart Code _____</p> <p>___ Secondary Heads</p> <p>___ Prominence of Secondary Heads</p> <p>___ Number of Secondary Heads</p>
<p>G. FLOWER</p> <p>___ Flower Color: 1 = White 2 = Cream 3 = Yellow 4 = Other _____</p> <p>Color Chart Name _____ Color Chart Code _____</p> <p>___ Flower Stalk Color: 1 = Green 2 = Purple 3 = Variegated</p> <p>Color Chart Name _____ Color Chart Code _____</p>	<p>FLOWER</p> <p>___ Flower Color</p> <p>Color Chart Code _____</p> <p>___ Flower Stalk Color</p> <p>Color Chart Code _____</p>
Application Variety	Comparison Variety

Application Variety

Comparison Variety

Figure 1 : Head and Dome Shapes

1 = Circular

2 = Transverse
Broad Elliptic

3 = Transverse
Elliptic

4 = Transverse
Elliptic Narrow

Domed



Semi-Domed



Deep Domed



H. DISEASE RESISTANCE (1 = Most Susceptible 5 = Intermediate 9 = Most Resistant)

- Black Leg (*Leptosphaeria maculans*)
- Black Spot (*Alternaria spp.*)
- Black Rot
- Bottom Rot (*Rhizoctonia solani*)
- Cauliflower Mosaic Virus
- Cerospora Leaf Spot (*Cercospora brassicicola*)
- Clubroot (*Plasmodiophora brassicae*)
- Downy Mildew (*Peronospora parasitica*)
- Erwinia Spp.
- Phythophthora Root Rot (*Phytophthora megasperma*)
- Powdery Mildew (*Erysiphe polygoni*)
- Pseudomonas
- Ring Spot (*Mycosphaerella brassicicola*)
- Turnip Yellow Mosaic Virus
- Verticillium Wilt (*Verticillium albo-atrum*)
- White Blister (*Albugo candida*)
- Xanthomonas Campestris
- Yellows (*Fusarium oxysporum*)
- Other (Specify) _____

DISEASE RESISTANCE

- Black Leg
- Black Spot
- Black Rot
- Bottom Rot
- Cauliflower Mosaic Virus
- Cerospora Leaf Spot
- Clubroot
- Downy Mildew
- Erwinia Spp.
- Phythophthora Root Rot
- Powdery Mildew
- Pseudomonas
- Ring Spot
- Turnip Yellow Mosaic Virus
- Verticillium Wilt
- White Blister
- Xanthomonas Campestris
- Yellows
- Other (Specify) _____

Application Variety

Comparison Variety

Application Variety	Comparison Variety
<p>I. INSECT RESISTANCE (1 = Most Susceptible 5 = Intermediate 9 = Most Resistant)</p> <p>___ Cabbage Root Maggots</p> <p>___ Cabbage Looper</p> <p>___ Aphids</p> <p>___ Flea Beetles</p> <p>___ Cutworms</p> <p>___ Nematodes (<i>Meloidogyne spp.</i>)</p> <p>___ Diamondback Moth (<i>Plutella xylostella</i>)</p> <p>___ Imported Cabbage Worm</p> <p>___ Other Insects (describe) _____</p>	<p>INSECT RESISTANCE</p> <p>___ Cabbage Root Maggots</p> <p>___ Cabbage Looper</p> <p>___ Aphids</p> <p>___ Flea Beetles</p> <p>___ Cutworms</p> <p>___ Nematodes</p> <p>___ Diamondback Moth</p> <p>___ Imported Cabbage Worm</p> <p>___ Other Insects _____</p>
<p>J. PHYSIOLOGICAL RESISTANCE (1 = Most Susceptible 5 = Intermediate 9 = Most Resistant)</p> <p>___ Buttoning</p> <p>___ Blindness</p> <p>___ Bolting</p> <p>___ Brown beads</p> <p>___ Drought</p> <p>___ Heat</p> <p>___ Cold</p> <p>___ Hollow Stem</p> <p>___ Riceyness</p> <p>___ Whiptail</p> <p>___ Other Physiological (describe) _____</p>	<p>PHYSIOLOGICAL RESISTANCE</p> <p>___ Buttoning</p> <p>___ Blindness</p> <p>___ Bolting</p> <p>___ Brown beads</p> <p>___ Drought</p> <p>___ Heat</p> <p>___ Cold</p> <p>___ Hollow Stem</p> <p>___ Riceyness</p> <p>___ Whiptail</p> <p>___ Other Physiological _____</p>
Application Variety	Comparison Variety
<p>K. COMMENTS:</p>	