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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
Cucumber (*Cucumis sativus* 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. 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.

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| <p>1. TYPE:</p> <p>___ Predominate Usage: 1 = Slicing (Fresh Market) 2 = Pickling</p> <p>___ Predominate Culture: 1 = Outdoor 2 = Greenhouse</p> <p>___ Area of Best Adaptation in the U.S.A.: 1= North 2 = South 3 = Most Areas</p> | <p>Comparison Variety Name _____</p> <p>___ Predominate Usage</p> <p>___ Predominate Culture</p> <p>___ Area of Best Adaptation in the U.S.A.</p> |
| <p>2. MATURITY:</p> <p>___ ___ ___ Days from Seeding to Market Maturity</p> | <p>___ ___ ___ Days to Market Maturity</p> |
| <p>3. PLANT:</p> <p>___ Habit: 1 = Bush 2 = Semi-bush 3 = Vine</p> <p>___ Growth: 1 = Determinate 2 = Indeterminate</p> <p>___ Sex: 1 = Andromonoecious 2 = Monoecious 3 = Primarily Gynoecious 4 = 100% Gynoecious</p> <p>___ Flower Color: 1 = Yellow 2 = Orange 3 = Green 4 = Other _____</p> <p>Color Chart Name _____ Color Chart Value _____</p> | <p>___ Habit</p> <p>___ Growth</p> <p>___ Sex</p> <p>___ Flower Color</p> <p>Color Chart Value _____</p> |
| <p>4. MAIN STEM:</p> <p>___ ___ ___ cm Length</p> <p>___ ___ Number of Nodes from Cotyledon Leaves to Node Bearing the First Pistillate Flower</p> <p>___ ___ cm Internode Length</p> <p>___ Stem Form: 1 = Groved, Ridged 2 = Smooth, Round</p> | <p>___ ___ ___ cm Length</p> <p>___ ___ Number of Nodes</p> <p>___ ___ cm Internode Length</p> <p>___ Stem Form</p> |
| Application Variety Data | Comparison Variety Data |

| Application Variety Data | Comparison Variety Data |
|---|---|
| <p>5. LEAF: (Mature blade of third leaf)</p> <p>_____ mm Length</p> <p>_____ mm Width</p> <p>_____ cm Petiole Length</p> | <p>_____ mm Length</p> <p>_____ mm Width</p> <p>_____ cm Petiole Length</p> |
| <p>6. FRUIT AT EDIBLE MATURITY:</p> <p>_____ cm Length</p> <p>_____ cm Diameter at Medial</p> <p>_____ Gram Weight</p> <p>___ Skin Color: 1 = Not Mottled 2 = Mottled or Speckled with Yellow</p> <p>___ Yellowish Blossom End Stripes: 1 = Absent 2 = Extend Less than 1/3 of the Fruit Length 3 = Extend More than 1/3 of the Fruit Length</p> <p>___ Predominant Color At Stem End: 1 = White (White Wonder) 2 = Light Green (Arlington White Spine) 3 = Medium Green 4 = Dark Green (Ashley)</p> <p>Color Chart Name _____ Color Chart Value _____</p> <p>___ Predominant Color At Blossom End: 1 = White (White Wonder) 2 = Light Green (Arlington White Spine) 3 = Medium Green 4 = Dark Green (Ashley)</p> <p>Color Chart Name _____ Color Chart Value _____</p> <p>___ Fruit Neck Shape: 1 = Not Necked 2 = Necked</p> <p>___ Fruit Tapering: 1 = Both Ends Tapered 2 = Stem End Tapered 3 = Blossom End Tapered 4 = Ends Blunt or Rounded</p> <p>___ Stem End Cross Section: 1 = Circular 2 = Triangular 3 = Square</p> <p>___ Medial Cross Section: 1 = Circular 2 = Triangular 3 = Square</p> <p>___ Blossom End Cross Section: 1 = Circular 2 = Triangular 3 = Square</p> <p>___ Skin Thickness: 1 = Thick 2 = Thin</p> <p>___ Skin Ribs: 1 = Not Ribbed 2 = Ribbed</p> <p>___ Skin Toughness: 1 = Tough 2 = Tender</p> <p>___ Skin Luster: 1 = Dull 2 = Glossy</p> <p>___ Spine Color: 1 = White 2 = Black</p> <p>___ Spine Quality: 1 = Coarse 2 = Fine</p> <p>___ Spine Density: 1 = Few 2 = Many</p> <p>___ Tubercles (Warts): 1 = Few, Obscure (Smoothie) 2 = Many, Obscure (Straight Eight) 3 = Few, Prominent (Salad) 4 = Many, Prominent (Chicago Pickling)</p> <p>___ Flavor: 1 = Bitterfree 2 = Bitter</p> | <p>_____ cm Length</p> <p>_____ cm Diameter at Medial</p> <p>_____ Gram Weight</p> <p>___ Skin Color</p> <p>___ Yellowish Blossom End Stripes</p> <p>___ Predominant Color At Stem End</p> <p>Color Chart Value _____</p> <p>___ Predominant Color At Blossom End</p> <p>Color Chart Value _____</p> <p>___ Fruit Neck Shape</p> <p>___ Fruit Tapering</p> <p>___ Stem End Cross Section</p> <p>___ Medial Cross Section</p> <p>___ Blossom End Cross Section</p> <p>___ Skin Thickness</p> <p>___ Skin Ribs</p> <p>___ Skin Toughness</p> <p>___ Skin Luster</p> <p>___ Spine Color</p> <p>___ Spine Quality</p> <p>___ Spine Density</p> <p>___ Tubercles (Warts)</p> <p>___ Flavor</p> |
| Application Variety Data | Comparison Variety Data |

| Application Variety Data | Comparison Variety Data |
|--|---|
| <p>7. FRUIT SEED AT HARVEST MATURITY:</p> <p>___ ___ cm Length</p> <p>___ ___ cm Diameter at Medial</p> <p>___ Color: 1 = White 2 = Cream 3 = Yellow 4 = Orange 5 = Brown 6 = Red</p> <p>Color Chart Name _____ Color Chart Value _____</p> <p>___ Color Pattern: 1 = Not Striped 2 = Striped</p> <p>___ Surface: 1 = Smooth 2 = Rough</p> <p>___ Netting: 1 = Slight or None 2 = Heavy</p> <p>___ Fruits Set: 1 = Parthenocarpically 2 = Normally with Seeds</p> | <p>___ ___ cm Length</p> <p>___ ___ cm Diameter at Medial</p> <p>___ Color</p> <p>Color Chart Value _____</p> <p>___ Color Pattern</p> <p>___ Surface</p> <p>___ Netting</p> <p>___ Fruits Set</p> |
| <p>8. SEEDS:</p> <p>___ ___ ___ No. per Fruit</p> <p>___ ___ ___ gm per 1,000 Seeds</p> | <p>___ ___ ___ No. per Fruit</p> <p>___ ___ ___ gm per 1,000 Seeds</p> |
| <p>9. DISEASE RESISTANCE: (0 = Untested, 1 = Susceptible, 2 = Resistant)</p> <p>___ Angular Leaf Spot (<i>Pseudomonas lachrymans</i>)</p> <p>___ Anthracnose (Race 1) (<i>Colletotrichum lagenaria</i>)</p> <p>___ Anthracnose (Race 2)</p> <p>___ Bacterial Wilt (<i>Erwinia tracheiphilus</i>)</p> <p>___ Cucumber Scab (Gummosis) (<i>Cladosporium cucumerinum</i>)</p> <p>___ Downy Mildew</p> <p>___ Powdery Mildew (<i>Erysiphe chioracearum</i>)</p> <p>___ Alternaria Leaf Blight (<i>Alternaria cucumerina</i>)</p> <p>___ Target Spot (<i>Corynespora cassiicola</i>)</p> <p>___ Cucumber Yellow Mottle Mosaic Virus (<i>Cucumis Virus 1</i>)</p> <p>___ Cucumber Green Mottle Mosaic Virus (<i>Cucumis Virus 2</i>)</p> <p>___ Cucumber Aucuba Mosaic Virus (<i>Cucumis Virus 2A</i>)</p> <p>___ Muskmelon Mosaic</p> <p>___ Other (Specify) _____</p> | <p>___ Angular Leaf Spot</p> <p>___ Anthracnose (Race 1)</p> <p>___ Anthracnose (Race 2)</p> <p>___ Bacterial Wilt</p> <p>___ Cucumber Scab (Gummosis)</p> <p>___ Downy Mildew</p> <p>___ Powdery Mildew</p> <p>___ Alternaria Leaf Blight</p> <p>___ Target Spot</p> <p>___ Cucumber Yellow Mottle Mosaic Virus</p> <p>___ Cucumber Green Mottle Mosaic Virus</p> <p>___ Cucumber Aucuba Mosaic Virus</p> <p>___ Muskmelon Mosaic</p> <p>___ Other (Specify) _____</p> |
| <p>10. INSECT RESISTANCE: (0 = Untested, 1 = Susceptible, 2 = Resistant)</p> <p>___ Aphid (<i>Aphis gossypii</i>)</p> <p>___ Pickleworm (<i>Diaphania nitidalis</i>)</p> <p>___ Eastern Striped Cucumber Beetle (<i>Acolymma vittata</i>)</p> <p>___ Two Spotted Mite (<i>Tetranychus bimaculatus</i>)</p> <p>___ Spotted Cucumber Beetle (<i>Diabrotica undecimpunctata howardi</i>)</p> <p>___ Western Striped Cucumber Beetle (<i>Acolymma trivittata</i>)</p> <p>___ Other (Specify) _____</p> | <p>___ Aphid</p> <p>___ Pickleworm</p> <p>___ Eastern Striped Cucumber Beetle</p> <p>___ Two Spotted Mite</p> <p>___ Spotted Cucumber Beetle</p> <p>___ Western Striped Cucumber Beetle</p> <p>___ Other (Specify) _____</p> |
| Application Variety Data | Comparison Variety Data |

11. Comments. Attach ONE photographic print of the application variety and the comparison variety described above, indicating the identity of each variety. This photograph should show fruits of each variety at a magnification sufficient to identify most of the verbal descriptors given above. (Additional information and photographs in support of this application may be supplied as part of the Exhibits B or D.)