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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  
Hemp (*Cannabis sativa* L.)**

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME		
LOCATION OF FIELD TRIAL(s) (Nearest City, State, County, and Country)		<table border="1"> <tr> <td data-bbox="1154 636 1578 688">FOR OFFICIAL USE ONLY</td> </tr> <tr> <td data-bbox="1154 688 1578 798">PVPO NUMBER</td> </tr> </table>	FOR OFFICIAL USE ONLY	PVPO NUMBER
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A. Morphology (\*) = Required responses

I. Plant

1. \_\_\_\_\_ \* Did you confirm that this variety has no more than 0.3% delta-9 tetrahydrocannabinol (THC) concentration level on a dry weight basis, as determined by using post-decarboxylation or other similarly reliable method (i.e., total THC, including THC acid)?
  - a. Yes
  - b. No, Application is Denied - Please Do Not Continue - Call PVPO at (202) 720-1066
  
2. \_\_\_\_\_ \* Initials to Confirm That This Variety is 0.3% THC Content or Less Based on Dry Weight Analysis
  
3. \_\_\_\_\_ Plant Type:    a. Asexually reproduced    b. Sexually propagated
  
4. \_\_\_\_\_ Proportion of Hermaphrodite (Bisexual) Plants:
 

a. Low (<5%)	d. Medium-high (66%-94%)
b. Low-medium (6%-35%)	e. High (>95%)
c. Medium (36%-65%)	
  
5. \_\_\_\_\_ Proportion of Female Plants
 

a. Low (<5%)	d. Medium-high (66%-94%)
b. Low-medium (6%-35%)	e. High (>95%)
c. Medium (36%-65%)	
  
6. \_\_\_\_\_ Proportion of Male Plants
 

a. Low (<5%)	d. Medium-high (66%-94%)
b. Low-medium (6%-35%)	e. High (>95%)
c. Medium (36%-65%)	
  
7. \_\_\_\_\_ Natural Plant Height (At Flowering)
  - a. Short
  - b. Medium
  - c. Tall
  - d. Other (Specify \_\_\_\_\_)
  
8. Natural Plant Height (At Flowering) (cm) \_\_\_\_\_ . \_\_\_\_\_ (Mean of 20 plants)
  
9. \_\_\_\_\_ Branching
  - a. Absent or Very Weak
  - b. Weak
  - c. Medium
  - d. Strong

## A. Morphology (Cont.)

## II. Seeding

1. \_\_\_\_\_ Cotyledon Shape
  - a. Narrow Obovate
  - b. Medium Obovate
  - c. Broad Obovate
  
2. \_\_\_\_\_ Cotyledon Color
  - a. Yellow
  - b. Light green
  - c. Medium green
  - d. Dark green
  
3. \_\_\_\_\_ Hypocotyl Intensity of Anthocyanin Coloration
  - a. Weak
  - b. Medium
  - c. Strong

## III. Stem (At Internode Below Last Opposite Leaves on Female or Monoecious Plants)

1. \_\_\_\_\_ Main Stem Color
  - a. Yellow
  - b. Medium green
  - c. Dark green
  - d. Purple
  - e. Other (Specify \_\_\_\_\_)
  
2. \_\_\_\_\_ Main Stem Length of Internode
  - a. Short
  - b. Medium
  - c. Long
  
3. Main Stem Length of Internode Mean of 20 (cm) \_\_\_\_\_ . \_\_\_\_\_
  
4. \_\_\_\_\_ Main Stem Thickness
  - a. Thin
  - b. Medium
  - c. Thick
  
5. \_\_\_\_\_ Main Stem Depth of Grooves
  - a. Shallow
  - b. Medium
  - c. Deep
  
6. \_\_\_\_\_ Main Stem Pith in Cross Section
  - a. Absent or Thin
  - b. Medium
  - c. Thick
  
7. \_\_\_\_\_ Plant Anthocyanin Coloration of Crown
  - a. Absent or Very Weak
  - b. Weak
  - c. Medium
  - d. Strong

## IV. Leaves (Last-Formed Opposite &amp; Fully Expanded Leaves, After Flowering)

1. \_\_\_\_\_ Leaf Intensity of Green Color
  - a. Light
  - b. Medium
  - c. Dark
  - d. Other (Specify \_\_\_\_\_)
  
2. \_\_\_\_\_ Leaf Length of Petiole
  - a. Short
  - b. Medium
  - c. Long

## A. Morphology (Cont.)

## IV. Leaves (Cont.)

3. Leaf Length of Petiole Mean of 20 (cm) \_\_\_\_\_ . \_\_\_\_
4. \_\_\_\_\_ Leaf Anthocyanin Color in Petiole
  - a. Absent or Very Weak
  - b. Weak
  - c. Medium
  - d. Strong
5. \_\_\_\_\_ Leaf Number of Leaflets
  - a. Few (<7)
  - b. Medium (Majority =7)
  - c. Many (>7)
6. \_\_\_\_\_ Central Leaflet Length
  - a. Short
  - b. Medium
  - c. Long
7. Central Leaflet Length Mean of 20 (cm) \_\_\_\_\_ . \_\_\_\_
8. \_\_\_\_\_ Central Leaflet Width:
  - a. Narrow
  - b. Medium
  - c. Broad
9. Central Leaflet Width Mean of 20 (cm) \_\_\_\_\_ . \_\_\_\_

## V. Inflorescence

1. \_\_\_\_\_ Time of Male Flowering
  - a. Very early
  - b. Early
  - c. Medium
  - d. Late
  - e. Very late
2. Flowering Date (Male) Number of Days (Julian) \_\_\_\_\_
3. \_\_\_\_\_ Male Flowers Anthocyanin Coloration
  - a. Absent or Very Weak
  - b. Weak
  - c. Medium
  - d. Strong
4. \_\_\_\_\_ Inflorescence THC Content
  - a. Absent or Very Low
  - b. Medium
  - c. Very high

## VI. Seed

1. 1000 Seed Weight (g) \_\_\_\_\_
2. \_\_\_\_\_ Seed Color of Testa
  - a. Light Grey
  - b. Medium Grey
  - c. Grey Brown
  - d. Yellowish Brown
  - e. Brown

## A. Morphology (Cont.)

## VI. Seed (Cont.)

3. Seed Color of Testa Color Code (RHS or Munsell) \_\_\_\_\_
4. \_\_\_\_\_ Seed Marbling of Color  
 a. Weak  
 b. Medium  
 c. Strong
5. \_\_\_\_\_ Seed Shape  
 a. Ovate  
 b. Ovate/Oblong  
 c. Oblong  
 d. Other (Specify \_\_\_\_\_)

## B. Disease Resistance

## I. Disease Resistance: (a = Not Tested, b = Susceptible, c = Tolerant, d = Resistant)

- \_\_\_\_\_ 1. Gray Mold (Botrytis)
- \_\_\_\_\_ 2. Sclerotinia Stem Canker
- \_\_\_\_\_ 3. Fusarium Wilt
- \_\_\_\_\_ 4. Southern Blight
- \_\_\_\_\_ 5. Fusarium Stem Canker
- \_\_\_\_\_ 7. Fusarium Root Rot
- \_\_\_\_\_ 8. Phymatotrichum Root Rot
- \_\_\_\_\_ 9. Brown Leaf Spot
- \_\_\_\_\_ 10. Septoria Leaf Spot
- \_\_\_\_\_ 11. Cercospora Leaf Spot
- \_\_\_\_\_ 12. Diaporthe Ganjae Spot
- \_\_\_\_\_ 13. Bacterial Leaf Spot
- \_\_\_\_\_ 14. Disease Resistance Other (Specify \_\_\_\_\_)

## C. Insect Resistance: (a.= Not Tested, b.= Susceptible, c.= Tolerant, d. = Resistant)

## I. Insect Resistance

- \_\_\_\_\_ 1. European Corn Borer
- \_\_\_\_\_ 2. Hemp Borer (Grapholita)
- \_\_\_\_\_ 3. Root-Knot Nematodes
- \_\_\_\_\_ 4. Insect Resistance Other (Specify \_\_\_\_\_)

## D. Uses

- I. \_\_\_\_\_ Uses  
 a. Oil  
 b. Fiber/Pith  
 c. Edible Seed  
 d. Pharmaceutical/Medicinal  
 e. Other (Specify \_\_\_\_\_)

E. Comments:

Please Include Extra Information Here