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Exhibit C

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

OBJECTIVE DESCRIPTION OF VARIETY
Sunflower (*Helianthus annuus* 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:

COMPARISON VARIETIES

NON-OIL: 1 = Arrowhead 2 = Mingren 3 = Sundak
OIL: 4 = Peredovik 5 = Krasnodarets 6 = Other _____

Place numbers in the boxes (e.g., 0 8 9) for the characters that best describe typical plants of this variety.

1. CLASS:

☐ 1 = Oil Type 2 = Non-oil Type (*Confectionery*)

2. MATURITY:

☐☐☐ No. of Days to Head First Visible (from emergence)

☐☐ Days Earlier Than ☐
Heading Same as ☐ } Comparison Variety
☐☐ Days Later Than ☐

☐☐☐ No. of Days to Harvest Ripeness (from emergence)

☐☐ Days Earlier Than ☐
Maturity Same as ☐ } Comparison Variety
☐☐ Days Later Than ☐

3. HEIGHT:

☐☐☐ cm Tall at Harvest Ripeness

☐☐☐ cm Shorter Than ☐
Same as ☐ } Comparison Variety
☐☐☐ cm Taller Than ☐

4. STEM:

☐☐☐ Length of Internode at Harvest Ripeness

☐.☐☐ cm Shorter Than ☐
Same as ☐ } Comparison Variety
☐.☐☐ cm Longer Than ☐

☐☐ Number of Leaves

☐☐ Fewer Leaves than ☐
Same as ☐ } Comparison Variety
☐☐ More Leaves than ☐

☐ Branching: 1 = No Branching 2 = Basal Branching 3 = Top Branching (*with central head*) 4 = Fully Branched (*without central head*)

☐ Color of Growing Point: 1 = Green 2 = Yellow

5. LEAVES: (Midstem at Flowering)

☐☐.☐ cm Blade Length

☐.☐ cm Shorter Than ☐
Length Same as ☐ } Comparison Variety
☐.☐ cm Longer Than ☐

☐.☐ cm Blade Width

☐.☐ cm Narrower Than ☐
Width Same As ☐ } Comparison Variety
☐.☐ cm Wider Than ☐

☐ Width: Length Ratio: 1 = Narrower than Long 2 = Equal 3 = Wider than Long

☐ Leaf Shape: 1 = Cordate 2 = Other _____

☐ Leaf Apex: 1 = Acuminate 2 = Other _____

☐ Leaf Base: 1 = Auriculate 2 = Truncate

☐ Leaf Margin: 1 = Entire 2= Finely Crenate 3 = Coarsely Crenate 4 = Other _____

☐ Depth of Margin Indentations: 1 = Shallow 2 = Intermediate 3 = Deep

☐ Attitude: 1 = Erect 2 = Ascending 3 = Horizontal 4 – Descending

☐ Surface: 1 = Smooth 2 = Crinkled (Ridged) 3 = Other _____

☐ Color: 1 = Light Green 2 = Green 3 = Dark Green 4 = Brown

☐ Margin Color: 1 = Green 2 = Yellow

6. HEAD AT FLOWERING:

☐ Ray Flowers: 1 = Absent 2 = Present

☐ Ray Flower Color: 1 = Yellow 2 = Sulfur Yellow 3 = Orange Yellow 4 = Other _____

☐ Disk Flower Color: 1 = Yellow 2 = Red 3 = Purple

☐ Anthocyanin in Stigmas: 1 = Absent 2 = Present

☐ Pollen Color: 1 = White (Colorless) 2 = Yellow

☐ Pappi: 1 = Green 2 = Rust (Red)

☐☐.☐ mm Ray Length ☐

☐.☐ mm Shorter Than ☐
Same as ☐ } Comparison Variety
☐.☐ mm Longer Than ☐

☐☐.☐ mm Ray Width

☐.☐ mm Narrower Than ☐
Same As ☐ } Comparison Variety
☐.☐ mm Wider Than ☐

7. HEADS AT SEED MATURITY:

☐☐.☐ cm Diameter ☐

☐☐.☐ cm Narrower Than ☐
Same as ☐ } Comparison Variety
☐☐.☐ cm Wider Than ☐

☐ Receptacle Shape: 1 = Flat 2 = Convex 3 = Concave

☐ Head Attitude: 1 = Vertical (Erect) 2 = Ascending 3 = Horizontal 4 = Descending

☐☐☐☐ No. of Seeds per Head

☐☐☐ Seeds/Head Less Than ☐
Same As ☐ } Comparison Variety
☐☐☐ Seeds/Head More Than ☐

8. SEEDS:

☐ Outer Pericarp: 1 = Clear 2 = Striped Black 3 = Nearly Solid Black

☐ Middle Pericarp: 1 = White 2 = Solid Purple

☐ Inner Pericarp (Seed Coat): 1 = No Color 2 = Brownish Black

☐ Stripes: 1 = Absent 2 = Even Black & White Stripes 3 = Broad Black and Narrow White
4 = Black with Narrow Dark-Grey Striping 5 = Other _____

☐ Mottling: 1 = Absent 2 = Present

☐ Shape: 1 = Ovate: 2 = Obovate (Shield) 3 = Narrowly Obovate 4 = Oblong 5 = Elliptic

☐ Shape: (Cross Section) 1 = Not Curved 2 = Curved

☐☐.☐ mm Length

☐☐.☐ mm Shorter Than ☐
Same as ☐ } Comparison Variety
☐☐.☐ mm Longer Than ☐

☐☐.☐ % Held on 7.9 mm (20/64) Round-hole Screen

☐☐.☐ % Less Than ☐
Same as ☐ } Comparison Variety
☐☐.☐ % More Than ☐

☐☐.☐ gm/100 Seeds

☐☐.☐ gm Lighter Than ☐
Same As ☐ } Comparison Variety
☐☐.☐ gm Heavier Than ☐

9. DISEASE AND INSECTS: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☐ Rust (*Puccinia hellanthi*)
Give Races: _____

☐ Verticillium Wilt (*Verticillium dahliae*)

☐ Downy Mildew (*Plasmorpara halstedii*)

☐ White Blister Rust (*Albugo tragopogi*)

☐ Broom Rape (*Orobanche cannis*)
Give Races: _____

☐ European Sunflower Moth (*H. nebullela*)

☐ Other (Specify) _____

☐ Sclerotinia Wilt (*Sclerotinia sclerotiorum*)

☐ Leaf Mottle *(V. albo-atrum*)

☐ Gray-Mold Blight, Bud Rot (*Botrytis cinerea*)

☐ Charcoal Rot, Stem Rot (*Macrophomina phasolina*)

☐ Sunflower Moth, N. Americna Head Moth (*Homoeosoma electellum*)

☐ Other (Specify) _____

☐ Other (Specify) _____

10. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THAE SUBMITTED VARIETY. For the following characteristics indicate degree of resemblance by placing in the column marked D.R., one of the following numbers:
1 = Submitted variety is less, lighter, or inferior than comparison variety 2 = Same as 3 = More than, darker, or superior.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Frost Resistance			Leaf Attitude		
Lodging Resistance			Head Attitude		
Neck or Stem Strength			Ray Flower Color		
Branching Type			Seed Shape		
Petiole Length			Seed Color		
Leaf Shape			Seed Striping Pattern		
Leaf Color (Green)			Seed Yield		

11. GIVE THE FOLLOWING DATA FOR SUBMITTED AND A SIMILAR VARIETY*:

VARIETY	HULL (%)	PROTIEN (%)	OIL (%)	IODINE (%)	FATTY ACIDS	
					OLIEC (%)	LINOLEIC (%)
Submitted						
Similar						
Name of Similar Variety						

* Hull, protien, and oil percentages expressed for whole undecorticated seed; acids expressed as percentages of oil.

12. COMMENTS:

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