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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  
RAPESEED (*Brassica napus* and *B. campestris*)**

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

**1. SPECIES**

\*  Brassica napus  Brassica campestris

**2. TYPE**

\*  Spring  Winter

**3. PLANT HEIGHT (at pod maturity)**

\_\_\_\_\_ cm Tall (compare to standard variety below)

\_\_\_\_\_ cm shorter than      Check variety: \_\_\_\_\_

Height same as                      Check variety: \_\_\_\_\_

\_\_\_\_\_ cm taller than              Check variety: \_\_\_\_\_

\* Height Class:  Autumn sown                       Spring sown  
                          1 = Short (Candle)                      1 = Short (Erglu)  
                          2 = Medium short ( )                      2 = Medium short ( )  
                          3 = Medium (Jet Neuf)                      3 = Medium (Cresus)  
                          4 = Medium tall ( )                      4 = Medium tall ( )  
                          5 = Tall (Dwarf Essex)                      5 = Tall (Petranova)

**4. STEM ANTHOCYANIN**

1 = Absent   2 = Weak   3 = Medium   4 = Strong

**5. SEED COTYLEDONS (maximum width fully developed; mean of 50 graded seeds)**

1 = Narrow (Erglu)   2 = Medium (Primor)   3 = Broad (Expander)

**6. SEEDLING GROWTH HABIT (leaf rosette)**

1 = Upright   2 = Prostrate (short photoperiod)

**7. LEAVES**

- \* \_\_\_ Margins (serration): 1 = Absent or very weak (Akela) 2 = Weak (Arvor, Jet Neuf) 3 = Medium (Primor) 4 = Strong (Candle, Kentan)
- \* \_\_\_ Lobing (fully developed leaf on plant or rosette)  
 1 = Absent or very weak (Akela) 2 = Weak (Arvor) 3 = Medium (Primor)  
 4 = Medium Strong (Argus) 5 = Strong (Kentan)
- \* \_\_\_ Leaf Attachment to Stem: 1 = Fully clasping (Candle) 2 = Partial clasping (Jet Neuf) 3 = No Clasping ( )
- \* \_\_\_ Color: 1 = Light green (Arvor) 2 = Medium green (Primor) 3 = Medium dark green (Oro) 4 = Dark green (Brunowski, Rapora)
- \* \_\_\_ Glaucoity: 1 = Absent 2 = Weak (Span) 3 = Weak to Medium (Gulliver) 4 = Medium (Magnus) 5 = Medium to strong (Oro) 6 = Strong

**8. FLOWERS**

- \* \_\_\_ Flower Buds Location 1 = Buds at tip of apical meristem (Jet Neuf) 2 = Buds immediately below apical meristem (Candle)
- \* \_\_\_ Petal color: 1 = Pale yellow ( ) 2 = Yellow (Jet Neuf, Primor) 3 = Orange ( ) 4 = White ( )
- \* \_\_\_ Anther dotting (at opening of flower; give percentage: \_\_\_\_\_ %)  
 1 = Absent ( ) 2 = Few ( ) 3 = Medium (Primor) 4 = Many ( )
- \* \_\_\_ Flowering class (Au
- \* \_\_\_ Flowering class (Autumn sown) \_\_\_ Flowering class (Spring sown)  
 1 = Very early (Arvor) 1 = Very early (Tower)  
 2 = Early (Primor) 2 = Early (Kosa)  
 3 = Medium early ( ) 3 = Medium early ( )  
 4 = Medium late ( ) 4 = Medium late ( )  
 5 = Late (Marcus) 5 = Late (Petranova)  
 6 = Very late ( ) 6 = (Very late)

**9. PODS (Slique)**

- \* \_\_\_ Pod type: 1 = Bilateral single pod (Jet Neuf) 2 = Other ( )
- \* \_\_\_ Silique beak length: 1 = Short (Forto) 2 = Medium (Liragold) 3 = Long (Rapol)
- \* \_\_\_ Pod length; (give length: \_\_\_\_ mm) 1 = Short ( ) 2 = Medium ( ) 3 = Long ( )
- \* \_\_\_ Pod width; (give width: \_\_\_\_ mm) 1 = Narrow ( ) 2 = Medium ( ) 3 = Wide ( )
- \* \_\_\_ Pod habit: 1 = Erect (Gulliver) 2 = Semi-erect to erect (Oro) 3 = Semi-erect 4 = Horizontal to semi-erect (Brink) 5 = Horizontal
- \* \_\_\_ Pedicel length: 1 = Very short ( ) 2 = Short ( ) 3 = Long ( )
- \* \_\_\_ Ripening Class (Autum sown): 1 = Very early ( ) 2 = Early ( ) 3 = Medium ( ) 4 = Late ( ) 5 = Very late ( )
- \* \_\_\_ Days to Maturity
- \* \_\_\_ Days earlyier than Check variety: \_\_\_\_\_
- \* Maturity same as Check variety: \_\_\_\_\_
- \* \_\_\_ Days later than Check variety: \_\_\_\_\_

**10. SEEDS**

- \* \_\_\_ g/1000 unsized seed
- \* \_\_\_ g less than Check variety: \_\_\_\_\_
- \* Weight same as Check variety: \_\_\_\_\_
- \* \_\_\_ g more than Check variety: \_\_\_\_\_
- \* \_\_\_ Weight Class (grams): 1 = less than 3.0 (Candle) 2 = 3.0 – 3.9 ( ) 3 = 4.0 – 5.0 (Jet Neuf) 4 = more than 5.0 ( )
- \* \_\_\_ Seeds Per Pod: (give number: \_\_\_ per pod): 1 = Low ( ) 2 = Medium ( ) 3 = High ( )
- \* \_\_\_ Testa Color: 1 = Black (Jet Neuf) 2 = Red ( )  
 3 = Yellow (Yellow Sarson) 4 = Dark brown to black ( )  
 5 = Reddish-brown to black ( ) 6 = Other \_\_\_\_\_

**11. CHEMICAL COMPOSITION OF SEED**

\* \_\_\_ Euric Acid: 1 = Low (less than 2%) 2 = Intermediate 3 = High (more than 50%)

\* \_\_\_ Glucosinate Content; (give: \_\_\_ . \_\_\_ millimoles/g, \_\_\_ . \_\_\_ mg/g) 1 = Low – less than 30 millim/g (Candle) 2 = High – More than 30 millim/g (Mikado)

\* \_\_\_ . \_\_\_ % Oil

\_\_\_ . \_\_\_ % Protein (oil free meal)

Fatty Acid Composition (%):

Palmitic 16:0	Stearic 18:0	Oleic 18:1	Linoleic 18:2	Linolenic 18:3	Eicosenoic 20:1	Erucic 22:1
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\* \_\_\_                      \_\_\_                      \_\_\_                      \_\_\_                      \_\_\_                      \_\_\_                      \_\_\_

**12. FROST TOLERANCE** (Late spring frosts)

\* \_\_\_ Tolerance: 1 = Not hardy – susceptible (Indore) 2 = Moderately susceptible ( ) 3 = Moderately resistant ( ) 4 = Hardy (Bridger)

**13. LODGING RESISTANCE**

\* \_\_\_ Resistance: 1 = Weak (Span) 2 = Moderately weak (Olga) 3 = Moderately strong ( ) 4 = Strong (Torpe)

**14. HERBICIDE RESISTANCE**

\* \_\_\_ Atrazine: 1 = Susceptible (Jet Neuf) 2 = Resistant ( )

\* \_\_\_ Other \_\_\_\_\_: 1 = Suscept ( ) 4 = Hardy (Bridger)

**15. DISEASE RESISTANCE** (0 = Not tested 1 = Susceptible 2 = Low resistance 3 = Moderate resistance 4 = High resistance)

\* \_\_\_ Sclerotinia Stem Rot (*Scerotinia sclerotiorum*)

\* \_\_\_ Black Let, Stem Canker (*Leptosphaeria maculans*, *Plenodomus lingam*, *Phoma lingam*)

\* \_\_\_ White Rust (*Albugo candida*, *A. Cruciferrarum*)

\* \_\_\_ Light Leaf Spot (*Pyrenopeziza brassicae*)

\* \_\_\_ Downy Mildew (*Peronospora parasitica*)

\* \_\_\_ Rhizoctonia Root Rot (*Rhizoctonia solani*)

\* \_\_\_ Alternaria Black Spot (*Alternaria brassicicola*)

\* \_\_\_ Other \_\_\_\_\_

**16. COMMENTS** (Please give any additional comments which characterizes the variety)**17. DIRECTIONS**

Select the number which characterizes the variety in the features above. Those characteristics marked with an asterisk "\*" should be recorded. Any others should be recorded if possible to help establish novelty or uniqueness. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Give test area \_\_\_\_\_ conditions \_\_\_\_\_.