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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 MUSTARD (*Brassica spp.* or *Sinapsis spp.*)

NAME OF AFFLICANT (3)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETT 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. Any other characteristics should be recorded in the Comments Section, and continued in Exhibit D, to help establish uniqueness. 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 years in the region and season of best adaptability. At least one year of trials should be conducted within the United States of America. 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 second trial of the same size would be needed to establish distinctness based on quantitative data. (Form technical content last updated July 2008.)  Give test area conditions			
1. SPECIES		COMPARISON VARIETY	
1= Brassica juncea 2=Sinapsis alba 3=Other (specify)		Species	
2. TYPE			
1=Spring 2=Winter		Type	
3. PLANT HEIGHT (at pod maturity)			
cm Tall		cm Tall	
Height Class: Autumn sown 1 = Short		Autumn Sown Height Class	
Height Class: Spring sown  1 = Short		Spring Sown Height Class	
4. STEM ANTHOCYANIN			
1=Absent 2=Weak 3=Medium 4=Strong		Stem Anthocyanin	
5. SEED COTYLEDONS (maximum width fully developed; mean of 50 graded seeds)			
1=Narrow 2=Medium 3=Broad		Seed Cotyledons	
6. SEEDLING GROWTH HABIT (leaf rosette)			
1=Upright 2=Prostrate (short photoperiod)		Seedling Growth Habit	

Exhibit C (Mustard)

7. LEAVES	
Margins (serration): 1=Absent or Very Weak 2=Weak 3=Medium 4=Strong	Leaf Margins (serration)
Lobing (fully developed leaf on plant or rosette)  1=Absent or Very Weak 2=Weak 3=Medium  4=Medium Strong 5=Strong	Leaf Lobing
Leaf Attachment to Stem: 1=Fully clasping 2=Partial clasping 3=No Clasping	Leaf Attachment to Stem
Color: 1=Light Green 2=Medium Green 3=Medium Dark Green 4=Dark Green	Leaf Color
Glaucosity: 1=Absent 2=Weak 3=Weak to Medium 4=Medium 5=Medium to Strong 6=Strong	Leaf Glaucosity
8. FLOWERS	
Flower Buds Location: 1=Buds at tip of apical meristem 2=Buds immediately below apical meristem	Flower Buds Location
Petal Color: 1= White 2 = Pale yellow 3=Yellow 4=Orange	Petal Color
Anther Dotting 1=Absent 2=Few 3=Medium 4=Many	Anther Dotting
% Anther Dotting at opening of flower	% Anther Dotting at opening of flower
Flowering Class (Autumn sown)  1 = Very early 2 = Early 3 = Medium early 4 = Medium late 5 = Late 6 = Very late	Autumn Sown Flowering Class
Flowering Class (Spring sown)  1 = Very early 2 = Early 3 = Medium early 4 = Medium late 5 = Late 6 = Very Late	Spring Sown Flowering Class
9. PODS (Slique)	
Pod Type: 1=Bilateral Single Pod 2=Other (describe)	Pod Type
Silique Beak Length: 1=Short 2=Medium 3=Long	Silique Beak Length
Pod Length: 1=Short 2=Medium 3=Long	Pod Length
mm Pod Length	mm Pod Length
Pod Width: 1=Narrow 2=Medium 3=Wide	Pod Width
mm Pod Width	mm Pod Width
Pod Habit: 1=Erect	Pod Habit
Pedicel Length: 1=Very short 2=Short 3=Long	Pedicel Length
Ripening Class (Autum sown): 1=Very early 2=Early 3=Medium 4=Late 5=Very late	Ripening Class (Autum sown)
Days to Maturity	Days to Maturity
10. SEEDS	
g/1000 Unsized Seed	g/1000 Unsized Seed
Weight Class (grams): 1=less than 3.0	Weight Class
Seeds Per Pod: 1=Low 2=Medium 3=High	Seeds Per Pod
Number of Seeds per Pod	Number of Seeds per Pod
Testa Color: 1 = Black 2 = Dark brown to black 3 = Reddish-brown to black 4 = Red 5 = Yellow 6 = Other	Testa Color

11. CHEMICAL COMPOSITION OF SEED	
Euric Acid: 1=Low (less than 2%) 2=Intermediate 3=High (more than 50%)	Euric Acid
Glucosinate Content: 1=Low – less than 30 millim/g 2=High – More than 30 millim/g	Glucosinate Content
millimoles/g Glucosinate Content	millimoles/g Glucosinate Content
mg/g Glucosinate Content	mg/g Glucosinate Content
% Oil	% Oil
% Protein (oil free meal)	% Protein (oil free meal)
Fatty Acid Composition (%):	Fatty Acid Composition (%):
Palmitic 16:0 Stearic 18:0	Palmitic 16:0 Stearic 18:0
Oleic 18:1 Linoleic 18:2	Oleic 18:1 Linoleic 18:2
Linolenic 18:3 Eicosenoic 20:1	Linolenic 18:3 Eicosenoic 20:1
Erucic 22:1	Erucic 22:1
12. FROST TOLERANCE (Late spring frosts)	
Tolerance: 1=Not hardy – susceptible 2=Moderately suscesptible 3=Moderately resistant 4=Hardy	Frost Tolerance
13. LODGING RESISTANCE	
Resistance: 1=Weak 2=Moderately weak 3=Moderately strong 4=Strong	Lodging Resistance
14. HERBICIDE RESISTANCE	
Atrazine: 1 = Susceptible 2 = Resistant	Atrazine
Other: (Specify) 1 = Susceptible 2 = Resistant	Other (Specify)
15. DISEASE RESISTANCE (0 = Not tested 1 = Susceptible 2 = Low resistance 3 = Moderate resistance 4 = High resistance)	
Selerotinia Stem Rot (Scerotinia sclerotiorum)	Selerotinia Stem Rot
Black Let, Stem Canker (Leptosphaeria maculans, Plenodomus lingum, Phoma lingam)	Black Let, Stem Canker
White Rust (Albugo candida, A. Cruciferrarum)	White Rust
Light Leaf Spot ( <i>Pyrenopeziza brassicae</i> )	Light Leaf Spot
Downy Mildew (Peronospora parasitica)	Downy Mildew
Rhizoctonia Root Rot (Rhizoctonia solani)	Rhizoctonia Root Rot
Alternaria Black Spot (Alternaria brassicicola)	Alternaria Black Spot
Other	Other
16. COMMENTS (Please give any additional comments which characterize the variety) (Continue in Exhibit	D)