

No.



201400397

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

I.N.R.A - Institut National de la Recherche Agronomique

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

An application requesting a certificate of protection for an alleged distinct variety of sexually reproduced, or tuber propagated plant, the name and description of which are contained in the application and exhibits, a copy of which is hereunto annexed and made a part hereof, and the various requirements of law in such cases made and provided have been complied with, and the title thereto is, from the records of the PLANT VARIETY PROTECTION OFFICE, in the applicant(s) indicated in the said copy, and whereas, upon due examination made, the said applicant(s) is (are) adjudged to be entitled to a certificate of plant variety protection under the law.

Now, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of TWENTY years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by law, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or conditioning it for propagation, or stocking it for any of the above purposes, or using it in producing a hybrid or different variety there from, to the extent provided by the PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)



RAPE

'COAHOMA'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-sixth day of February, in the year two thousand and sixteen.*

Attest:

Commissioner
Plant Variety Protection Office

Secretary of Agriculture

201400397

Unofficial Copy dbc 08/25/2015

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)			The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).		
1 NAME OF OWNER I.N.R.A - Institut National de la Recherche Agronomique		2 TEMPORARY DESIGNATION OR EXPERIMENTAL NAME HEL 6.4		3 VARIETY NAME COAHOMA	
4 ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) c/o AGRI-OBTENTIONS S.A. Chemin de la Petite Miniere 78280 Guyancourt - France		5 TELEPHONE (include area code) +33.(0)1.30.48.23.15		FOR OFFICIAL USE ONLY	
		6 FAX (include area code) +33.(0)1.30.83.36.78		PVPO NUMBER 201400397	
7 IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Public Institution		8 IF INCORPORATED, GIVE STATE OF INCORPORATION		9 DATE OF INCORPORATION 7/2/14	
10 NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION (First person listed will receive all papers) Norton Rose Fulbright 98 San Jacinto Blvd, Suite 1100 Austin, Texas 78701 ETATS UNIS.			11 TELEPHONE (include area code) 512-536-3123		F E E S B R E G D FILING AND EXAMINATION FEES: \$ 4,382 DATE 7/2/14 CERTIFICATION FEE: \$ DATE
			12 FAX (include area code) 512-536-4598		
13 E-MAIL aoipdocket@nortonrosefulbright.com					
14 CROP KIND (Common Name) Oil Seed Rape		15 GENUS AND SPECIES NAME OF CROP B. Napus Oleifera Metzg.		16 FAMILY NAME (Botanical) Brassica	
17 IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18 DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION		20 DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input checked="" type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input type="checkbox"/> NO (If "no", go to item 23) <input type="checkbox"/> UNDECIDED	
19 CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a <input checked="" type="checkbox"/> Exhibit A Origin and Breeding History of the Variety b <input checked="" type="checkbox"/> Exhibit B Statement of Distinctness c <input checked="" type="checkbox"/> Exhibit C Objective Description of Variety d <input type="checkbox"/> Exhibit D Additional Description of the Variety (Optional) e <input checked="" type="checkbox"/> Exhibit E Statement of the Basis of the Owner's Ownership f <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), make checks payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) other methods of payment explained in the instructions			21 DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
			22 DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc FOR EACH CLASS 1 FOUNDATION 1 REGISTERED 1 CERTIFIED <i>(If additional explanation is necessary, please use the space indicated on the reverse.)</i>		
23 HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			24 IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		
25 The owners declare that a viable sample of basic seed will be furnished directly to an acceptable depository in support of the variety within three months of filing. Seed will be replenished upon request in accordance with such regulations as may be applicable. For a tuber propagated variety or vegetative propagated parent of the variety, a tissue culture or vegetative sample will be deposited in a public repository within three months of the date of the certificate fee request letter. These will be maintained for the duration of the certificate. The undersigned owner(s) is (are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 			SIGNATURE OF OWNER		
NAME (Please print or type) Louis Foret			NAME (Please print or type)		
CAPACITY OR TITLE General Manager		DATE 10 JUL. 2014		CAPACITY OR TITLE 2014 JUL 21 AM 11:15	

AGRI-Obtentions, S.A. (a subsidiary of INRA)

dbc 05/26/2015

22. CONTINUED FROM FRONT *(Please provide a statement as to the limitation and sequence of generations that may be certified.)*

23. CONTINUED FROM FRONT *(Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)*

24. CONTINUED FROM FRONT *(Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)*

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE		FOR OFFICIAL USE ONLY
EXHIBIT A – ORIGIN AND BREEDING HISTORY <small>** Use additional pages as needed.</small>		PVPO NUMBER 201400397
1. Name of Owner I.N.R.A - Institut National de la Recherche Agronomique	2. Temporary Designation or Experimental Name HEL 6.4	3. Variety Name GOAHOMA
4. Describe the genealogy (back to and including public and commercial varieties, lines, or clones used) and the breeding method(s). ** Genetic origin = FMB6.4 x (GOT219 x 2781) Breeding by genealogic selection and self pollination. Genetic maintenance by plant lines and isolated plots.		
5. Give the details of subsequent stages of selection and multiplication. **		
Year	Detail of Stage	Selection Criteria
2003/2004 2005 2006 2007/2010 2011 ...	Controlled cross and F1 multiplication in green house F2 selfing of selected plants F3 selfing of selected plants F4 to F7 selfing in nursery F8 fixity and genetic maintenance	Selfing Earliners/Lodging/Diseases Resistance - Erucic Acid Content Agronomic Value - Erucic Acid Control Large Plots Agronomic Value
6. Is the variety uniform? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No How did you test for uniformity? Visually		
7. Is the variety stable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No How did you test for stability? Over how many generations? Visually 3 Generations		
8. Are genetic variants observed or expected during reproduction and multiplication? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, state how these variants may be identified, their type and frequency.		



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EXHIBIT B – STATEMENT OF DISTINCTNESS ** Use additional tables to present clear differences for additional comparison varieties. Use additional pages to present supporting evidence.				
1. Name of Owner		2. Temporary Designation or Experimental Name	3. Variety Name	
I.N.R.A - Institut National de la Recherche Agronomique		HEL 6.4	COAHOMA	
Based on overall morphology, <u>HEL 6.4</u> is most similar to <u>ZERUCA</u> <u>COAHOMA</u> most clearly <i>Applicant's new variety</i> <i>Most similar comparison variety(ies)</i> <i>Applicant's new variety</i> differs from <u>ZERUCA</u> in the following traits Name the specific trait. Then list the value of that trait for each variety in the comparison. Submit <i>Most similar comparison variety(ies)</i> appropriate supporting evidence (see the Guidelines for Presenting Evidence in Support of Variety Distinctness in the instructions):				
	Eg. Leaf Pubescence Eg. Leaf Color Eg. Plant Height	heavy pubescence Dark Green (5GY 3/4) 200 cm +/- 10 cm (N=25)	glabrous Light Green (2.5GY 8/10) 250 cm +/- 15 cm (N=25)	photograph attached Munsell Color Chart statistics attached
	1. Qualitative traits:	2. Color traits:	3. Quantitative traits:	4. Other traits:
Application Variety	COAHOMA Lodging Resistance Good		Heading Date (Calendar) 2011: 105 2012: 109 2013: 113 Plant Height (cm) 2011: 148 2012: 150 2013: 161	Oleic Acid 22.0% Linoleic Acid 14.4% α Linoleic Acid 3.4% Erucic Acid 42.2% Glucosinolates 27.8 μmole/g
Comparison Variety 1	ZERUCA Lodging Resistance Medium		Heading Date (Calendar) 2011: 101 2012: 106 2013: 107 Plant Height (cm) 2011: 136 2012: 142 2013: 153	Oleic Acid 13.8% Linoleic Acid 11.7% α Linoleic Acid 8.0% Erucic Acid 50.4% Glucosinolates 10.96 μmole/g
Comparison Variety 2				
Comparison Variety 3				

** Use additional tables to present clear differences for additional comparison varieties. Use additional pages to present supporting evidence.

ANOVA

ANOVA PLANT HEIGHT (cm)

SOURCE	SS	DF	MS	F	Prob.	
FACTOR 1 (var)	130,666667	1	130,666667	49	0,01980394	significant
FACTOR 2 (Year)	241,333333	2	120,666667	45,25	0,02162162	significant
Error	5,33333333	2	2,66666667			
Total	377,333333	5				
	LSD (0.05)		1,63			
	CV		1,10			
	AVERAGE		148,3			

ANOVA HEIDING DATE (calandar)

SOURCE	SS	DF	MS	F	Prob.	
FACTOR 1 (var)	28,1666667	1	28,1666667	24,1428571	0,03901235	significant
FACTOR 2 (Year)	50,3333333	2	25,1666667	21,5714286	0,0443038	significant
Error	2,33333333	2	1,16666667			
Total	80,8333333	5				
	LSD (0.05)		1,08			
	CV		1,01			
	AVERAGE		106,8			

DATA

VARIETY	Plant Height (cm)		
	2011	2012	2013
HEL6.4	148	150	161
ZERUCA	136	142	153

VARIETY	Heading date (Calandar)		
	2011	2012	2013
HEL6.4	105	109	113
ZERUCA	101	106	107

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

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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) I.N.R.A. - Institut national de la Recherche ARGI OBTENTIONS S.A. Agronomique	TEMPORARY OR EXPERIMENTAL DESIGNATION HEL 6.4	VARIETY NAME COAHOMA
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country) Chemin de la Petite Miniere 78280 Guyancourt France	FOR OFFICIAL USE ONLY	
	PVPO NUMBER 201400397	

1. SPECIES

* *Brassica napus* *Brassica campestris*

2. TYPE

* Spring Winter

3. PLANT HEIGHT (at pod maturity)

1 5 0 0 cm Tall (compare to standard variety below)

_____ cm shorter than Check variety: _____

Height same as Check variety: _____

0 8 0 cm taller than Check variety: Zeruca

* Height Class: 4 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 1 = Absent 2 = Weak 3 = Medium 4 = Strong

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

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

6. SEEDLING GROWTH HABIT (leaf rosette)

1 1 = Upright 2 = Prostrate (short photoperiod)

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7. LEAVES

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

8. FLOWERS

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

9. PODS (Siliques)

- * 1 Pod type: 1 = Bilateral single pod (Jet Neuf) 2 = Other ()
- * 3 Siliques beak length: 1 = Short (Forto) 2 = Medium (Liragold) 3 = Long (Rapol)
- * 3 Pod length; (give length: 70, 0 mm) 1 = Short () 2 = Medium () 3 = Long (X)
- * 2 Pod width; (give width: 5, 0 mm) 1 = Narrow () 2 = Medium () 3 = Wide ()
- * 4 Pod habit: 1 = Erect (Gulliver) 2 = Semi-erect to erect (Oro) 3 = Semi-erect 4 = Horizontal to semi-erect (Brink) 5 = Horizontal
- * 2 Pedicel length: 1 = Very short () 2 = Short (X) 3 = Long ()
- * 3 Ripening Class (Autumn sown): 1 = Very early () 2 = Early () 3 = Medium (X) 4 = Late () 5 = Very late ()
- * 1 9 5 Days to Maturity (From January 1st)
- * _____ 5 Days earlier than Check variety: ZERUCA
- * Maturity same as Check variety: _____
- * _____ Days later than Check variety: _____

10. SEEDS

- * 3 1 g/1000 unsized seed
- * _____ g less than Check variety: _____
- * Weight same as Check variety: ZERUCA
- * _____ g more than Check variety: _____
- * 2 Weight Class (grams): 1 = less than 3.0 (Candle) 2 = 3.0 – 3.9 (X) 3 = 4.0 – 5.0 (Jet Neuf) 4 = more than 5.0 ()
- * 3 Seeds Per Pod: (give number: 24 per pod): 1 = Low () 2 = Medium () 3 = High (X)
- * 4 Testa Color: 1 = Black (Jet Neuf) 2 = Red ()
 3 = Yellow (Yellow Sarson) 4 = Dark brown to black (X)
 5 = Reddish-brown to black () 6 = Other _____

11. CHEMICAL COMPOSITION OF SEED

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

* 1 Glucosinate Content; (give: 2 7 8 millimoles/g, _____ mg/g) 1 = Low – less than 30 millim/g (Candle) 2 = High – More than 30 millim/g (Mikado)

* 50.1 % 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
—	—	<u>22</u>	<u>14.4</u>	<u>3.4</u>	—	<u>42.2</u>

12. FROST TOLERANCE (Late spring frosts)

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

13. LODGING RESISTANCE

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

14. HERBICIDE RESISTANCE

* 1 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)

* 0 Sclerotinia Stem Rot (*Scerotinia sclerotiorum*)

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

* 0 White Rust (*Albugo candida*, *A. Cruciferrarum*)

* 0 Light Leaf Spot (*Pyrenopeziza brassicae*)

* 0 Downy Mildew (*Peronospora parasitica*)

* 0 Rhizoctonia Root Rot (*Rhizoctonia solani*)

* 0 Alternaria Black Spot (*Alternaria brassicicola*)

* 0 Other _____

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

Information is given with results obtained in France (Beauce Area). Some variations can be expected in other areas or countries.

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 France conditions winter saving in Center c Beauce Area.

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE

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**EXHIBIT E
 STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7. PVPO NUMBER		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.** YES NO

9. Is the applicant a U.S. national or a U.S. based entity? **If no, give name of country.** YES NO

10. Is the applicant the original owner? YES NO **If no, please answer one of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

YES NO **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

YES NO **If no, give name of country**

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

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Variety description formvariety: **ZERUCA**species: RAPE SEED (*BRASSICA NAPUS L. PARTIM*)

variety type: CONVENTIONAL VARIETY

international guideline: CPVO-TP/36/1 (25-03-2004)

national guideline: FR

registration year: 1998

breeder: INRA/SERASEM

Characteristic number	Characteristic	State of expression	Note
a	Flower Intensity of yellow colour	medium yellow	5
b	Siliqua Attitude	1/2 erected to horizontal	4
1	Seed Erucic acid	present	9
11	Flower Length of petals	medium	5
13	Production of pollen	present	9
4	Leaf Green colour	dark	7
8	Dentation of margin	medium	5
9	Plant Time of flowering	early to medium	4
10	Flower Colour of petals	yellow	3
6	Leaf Lobes	present	9
7	Number of lobes	medium	5
12	Flower Width of petals	medium	5
15	Plant Total length	medium	5

UPOV VARIETY DESCRIPTION FORM

201400397

1.	Reference number of Reporting Authority	: CTPS 071049
2.	Reference number of Requesting Authority	: 071049
3.	Breeder's reference	: H 133
4.	Applicant (name and address)	: Serasem 60 rue Léon Beauchamp BP 45 59933 La Chapelle-d'Armentières Cedex France
-.	Breeder's name	: French National Institute for Agricultural Research (INRA) - Serasem
5.	Botanical name of taxon	: <i>Brassica napus var. napus</i>
6.	Common name of taxon	: Winter rape seed
7.	Variety denomination	: Zeruca
7a.	Variety type	: line
8.	Date and document number of UPOV Test Guidelines	: 18/10/1996, TG/36/6
9.	Date and/or document number of Reporting Authority's test guidelines	: FR
10.	Reporting Authority	: GEVES, France
11.	Testing station(s) and place(s)	: GEVES La Minière (78), Le Magneraud (17)
12.	Period of testing	: 10/08/1996 - 31/07/1998
13.	Date and place of issue of document	: 03/07/2015, Le Magneraud

15. Characteristics observed

UPOV or national number	Characteristic	State of expression	Note
1 *	Seed erucic acid	present	9
4 *	Leaf green colour	dark	7
5 *	lobes	present	9
6 *	number of lobes (fully developed leaf)	medium	5
7 *	dentation of margin	medium	5
11 *	Plant time of flowering	early to medium	4
12 *	Flower colour of petals	yellow	3
a	intensity of yellow colour	medium yellow	5
13	length of petals	medium	5
14	width of petals	medium	5
15	production of pollen	present	9
17	Plant total length, including side branches	medium	5
b	Siliqua attitude	1/2 erected to horizontal	4

(*) Characteristics whose description is required

(a, b, etc.) The characteristics designated by a letter are additional national characteristics

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201400397

16. Similar varieties and differences from these varieties

Denomination of the similar variety	Characteristic in which the varieties differ	Similar variety	State of expression	Candidate variety	State of expression
Gaspard	<u>Leaf</u> 4 green colour	6	medium to dark	7	dark
	<u>Plant</u> 11 time of flowering	6	medium to late	7	early to medium

17. Additional information:

- a) Additional data Glucosinolate content (mean observed during the official tests): 15.4 micromoles per gram of whole seed at 9% moisture.
HPLC method.
- b) Observations - - -

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(*) Characteristics whose description is required
(a, b, etc.) The characteristics designated by a letter are additional national characteristics

This description cannot be used for registration on any national list or register either for purpose of marketing or plant breeder's rights without GEVES consent