Form ST 470 OMB NO. 0581-0055
Expiration Date: 01/31/2022



Plant Variety Protection Office 1400 Independence Avenue, SW Room 2915-South Building, Stop 0274 Washington, DC 20250 (202) 260-8983 PVPOMail@usda.gov

# Application for Plant Variety Protection Certificate



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### 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:				
PVPO NUMBER:	FILING DATE:			
FILING AND EXAMINATION FEES PAID	DATE			
NAME OF OWNER: (Name to be printed on certificate)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME:			
	3. VARIETY NAME:			
4. ADDRESS:				
4. ADDITEGO.				
5. OWNER TELEPHONE: (+00 (000) 000-0000)	6. OWNER FAX NUMBER AND/OR EMAIL ADDRESS:			
7. IF OWNER NAMED IS NOT A "PERSON", GIVE FORM OF OR	GANIZATION: (corporation, partnership, association, etc.)			
8. IF INCORPORATED, GIVE STATE OF INCORPORATION:	9. DATE OF INCORPORATION:			
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) A	NID/OR REFERENCES TO SERVE ON THIS ARRIVEATION:			
(First person listed will receive all documents including the cer				
NAME(S): ADDRESS(ES):				
11.REPRESENTATIVE TELEPHONE: (+00 (000) 000-0000)	12. REPRESENTATIVE FAX:			
13. REPRESENTATIVE EMAILS:				
10. NEI NEGENTATIVE EMAILS.				

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### APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

14 CDOD KIND: (Common Nama)	15. GENUS AND SPECIES:	16 FAMILY NAME: (Potonical)			
14. CROP KIND: (Common Name)	15. GENUS AND SPECIES.	16. FAMILY NAME: (Botanical)			
17. IS THE VARIETY A FIRST-GENERATION	L ON HYBRID?				
The the the thine the term of					
YES	NO				
18. DOES THE VARIETY CONTAIN ANY B	NOTECHNOLOGY EVENTS? *				
10. BOES THE VARIETY SOLVIALITY B	NOTEONINGEOUT EVENTO:				
YES	NO				
*Δ hiotechnology event is defined as a since	ale insertion of a nucleic acid construct into	a specific site in a plant's chromosome that is			
	U.S. Coordinated Framework for the Regu				
19. SEE ATTACHED CHECKLIST, PLEASE	E INCLUDE WITH FINAL SUBMISSION				
20. DOES THE OWNER SPECIFY THAT S	EED OF THIS VARIETY BE SOLD ONLY	AS A CLASS OF CERTIFIED SEED?			
(See Section 83(a) of the Plant Variety F	Protection Act)				
YES (If "yes", answer items 21 and	22 below)				
NO (If "no", go to item 23)					
UNDECIDED					
21. DOES THE OWNER SPECIFY THAT S	SEED OF THIS VARIETY BE LIMITED AS	TO NUMBER OF CLASSES?			
YES	NO				
IF YES, WHICH CLASSES?					
FOUNDATION	REGISTERED	CERTIFIED			
22. DOES THE OWNER SPECIFY THAT S	SEED OF THIS VARIETY BE LIMITED AS	TO NUMBER OF GENERATIONS?			
22. Bolo THE OWNER OF EOIL THINK	SEED OF THIS VALUETT BE ENVITED AS	TO NOWIBER OF SEINERVITIONS:			
YES	NO				
IF YES, SPECIFY THE NUMBER 1,2,3	, etc. FOR EACH CLASS:				
FOUNDATION	REGISTERED	CERTIFIED			
COMMENTS:					
I .					

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# AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

### APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

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?				
YES	NO			
IF YES, YOU MUST PROVIDE THE DATE C THE CIRCUMSTANCES:	F FIRST SALE, DIS	POSITION, TRANSFER, OR USE FOR E	EACH COUNTRY AND	
24. IS THE VARIETY OR ANY COMPONENT BREEDER'S RIGHT OR PATENT)?	OF THE VARIETY	PROTECTED BY INTELLECTUAL PROP	PERTY RIGHT (PLANT	
YES	NO			
IF YES, PLEASE GIVE COUNTRY, DATE O	F FILING OR ISSUA	NCE AND ASSIGNED REFERENCE NUI	MBER:	
25. The owners declare that a viable seed sar within three months of filing. For a tuber prop deposited in a public repository within three m duration of the certificate. Germplasm will be a	agated variety or veo conths of the date of	getatively reproduced variety, a germplasr the Notice of Allowance letter. These will	n sample will be be maintained for the	
The undersigned owner(s) is(are) the owner or required in Section 42, and is entitled to prote is(are) informed that false representation here	ction under the provi	sions of Section 42 of the Plant Variety Pr		
SIGNATURE OF OWNER:		SIGNATURE OF OWNER:		
NAME: (Please print or type)		NAME: (Please print or type)		
CAPACITY OR TITLE:	DATE:	CAPACITY OR TITLE:	DATE:	
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#### 19. CHECK LIST: (Please include with final submission)

#### ST-470 APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Owner and Variety Information.

See UPOV Explanatory Notes on Variety Denominations Under the UPOV Convention (<a href="https://www.upov.int/edocs/infdocs/en/upov\_inf\_12\_4.pdf">https://www.upov.int/edocs/infdocs/en/upov\_inf\_12\_4.pdf</a>)

See UPOV Explanatory Notes on the Definition of Breeder Under the 1991 Act of the UPOV Convention (https://www.upov.int/edocs/expndocs/en/upov\_exn\_brd.pdf)

Exhibit A. Origin and Breeding History of the Variety

See UPOV Explanatory Notes On The Definition Of Variety Under The 1991 Act Of The UPOV Convention (https://www.upov.int/edocs/expndocs/en/upov\_exn\_var.pdf)

Exhibit B. Statement of Distinctness

See UPOV General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants

(https://www.upov.int/export/sites/upov/resource/en/tg 1 3.pdf)

Exhibit C. Objective Description of Variety

Please submit the Exhibit C matching the subject crop (if one is not available please contact the PVPO) (https://www.ams.usda.gov/services/plant-variety-protection/pvpo-c-forms)

For Distinctness, Uniformity, and Stability (DUS) testing guidance please see UPOV Database of Test Guidelines for Specific Crop Kinds:

(https://www.upov.int/test\_guidelines/en/)

An officially issued DUS report may be submitted in place of an Exhibit C for most crops. Additional information may be required during the examination. Please contact PVPO for more information.

Exhibit D. Additional Description of the Variety (Optional)

Additional information and Evidence (Including: Photographs, Data, Genetic Information, Attachments)

Exhibit E. Statement of the Basis of the Owner's Ownership

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.
- 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 owner is an owner who is not the original owner, both the original owner and the owner 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.

#### FILING AND EXAMINATION FEE

Use ePVP, pay.gov, credit card, or make checks and money orders payable to "Treasurer of the United States" Fee of \$5,150 covers application and certificate filing fee.

#### **GERMPLASM DEPOSIT**

Germplasm has been deposited with:

Technical Infeasibility of Germplasm Deposit (Please contact PVPO)

Germplasm will be deposited after PVP Certificate Issuance (Potato and Vegetatively Reproduced Varieties)

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### U.S. DEPARTMENT OF AGRICULTURE

# AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

# EXHIBIT A ORIGIN AND BREEDING HISTORY

NAME OF OWN	NER (5):	TEMPORARY OR EXPERIM DESIGNATION:		_ VAF	RIETY NAME:
I. PROPAGATIO	N:			I	
1. How i	s the variety propa	gated?			
	Sexually Propaga	ted:			
	Seed				
	Asexually Propaga	ated:			
	Bulb	Cuttin	g	Grafting	Layering
	Offset	Sucke	ering	Tissue Culture	Tuber
	Other (S <sub>l</sub>	pecify)			
II. GENEALOGY:	:				
1. Descr the stoc	k plants. Please in	of the variety including t clude the breeding meth leted. (Please attach m	iods used, durati	on of breeding stages,	ce numbers), and c and any additional
1. Descr the stoc	k plants. Please in	clude the breeding meth	iods used, durati	on of breeding stages,	ce numbers), and c and any additional
1. Descr the stoc or devel	k plants. Please in opment work comp	clude the breeding meth	ods used, durati ore pages if nec	on of breeding stages, essary).	ce numbers), and c and any additional
1. Descr the stoc or devel	k plants. Please in opment work comp	clude the breeding meth leted. (Please attach m	nods used, durati ore pages if nec	on of breeding stages, essary).	ce numbers), and c and any additional
1. Describe stock or development of the stock of the stoc	k plants. Please in opment work comp	clude the breeding meth leted. (Please attach m	nods used, durati ore pages if nec	on of breeding stages, essary).	ce numbers), and cand any additional
1. Describe stock or development of the stock of the stoc	k plants. Please in opment work comp	clude the breeding meth leted. (Please attach m	nods used, durati ore pages if nec	on of breeding stages, essary).	ce numbers), and c
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# EXHIBIT A ORIGIN AND BREEDING HISTORY

NAME OF OWNER (S):	TEMPORARY OR EXPERIMENTAL DESIGNATION:	VARIETY NAME:
III. UNIFORMITY:		
1ls the variet	y uniform?:	
A. Yes	B. No	
2. How did you test for u	iniformity?	
IV. STABILITY:		
1ls the variet	y stable?:	
A. Yes	B. No	
2. How did you test for s	tability? Over how many generations?	
3Are genetic	variants observed or expected during reproduction	and multiplication?
A. Yes	B. No	
If Vac	, state how these variants may be identified, their t	ne and frequency

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# EXHIBIT B STATEMENT OF DISTINCTNESS

NAME OF OWNER (S)		OR EXPERIMENTAL VARIETY NAME: SIGNATION:		
BASED ON OVERALL MORPH	R TO  (Most Similar Variety(ies))			
The variety most clearly differs from in the following traits:  (Subject Variety) (Most Similar Variety(ies))				
Traits	Subject Variety	Subject Variety Most Similar Variety Location of Ev		
Qualitative Traits				
Color Traits				
Quantitative Traits				
Other Traits				
<b>Example</b> Leaf Pubescence	Heavy Pubescence	Glabrous	Photograph attached	
Leaf Color	Dark Green (5GY 3/4)	Light Green (2.5GY 8/		
Plant Height	200 cm +/- 10 cm (N=25)	250 cm +/- 15 cm (N=2	Statistics attached	

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# EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP

NAME OF OWNER (S):	TEMPORARY OR EXPERIMENTAL DESIGNATION:	VARIETY NAME:
1. Does the owner own all rights to the	ne variety?	
YES	NO	
If NO, please explain:		
2. Is the owner a U.S. national or a U	J.S. based entity?	
YES	NO	
If NO, give name of country	:	
3. Is the owner the original owner?		
YES	NO	
If NO, please answer one o	f the following:	
A. If the original rights to the	e variety were owned by individual(s), is (are) th	ne original owner(s) a U.S. national(s)?
YES	NO	
If NO, give name o	of country:	
B. If the original rights to the company?	e variety were owned by a company(ies), is (are	e) the original owner(s) a U.S. based
YES	NO	
If NO, give name o	of country:	