

201400079

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

HZPC HOLLAND B.V.

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.)



Attest:

POTATO

'COLOMBA'

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.

Slew J. Vilval

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Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture



2013 DEC 20 PM 3:29 REPRODUCE LOCALLY. Include form number and date on all reproductions Form Approved - OMB No. 058 U.S. DEPARTMENT OF AGRICULTURE The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and AGRICULTURAL MARKETING SERVICE the Paperwork Reduction Act (PRA) of 1995. SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE 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). APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse) 1. NAME OF OWNER TEMPORARY DESIGNATION OR EXPERIMENTAL NAME HZPC Holland B.V. HZD 00- 277 COLOMBA 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 5. TELEPHONE (include area code) FOR OFFICIAL USE ONLY +31-513-489888 P.O. Box 88 6 FAX (include area code) NL-8500 AB Joure 201400079 +31-513-489800 FILING DATE IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) IF INCORPORATED, GIVE STATE OF 19, DATE OF INCORPORATION 12/20/2013 **Limited Company** Unofficial Copy 10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS FILING AND EXAMINATION FEES 11. TELEPHONE (include area code) 4,382 +19028922004 DATE 12/20/2013 CERTIFICATION FEE: HZPC Americas Corp. 19, Regis Duffy Drive 12. FAX (Include area code) C, West Royalty C1E OK5 +19028920321 D DATE Charlottetown P.E.I. 13. E-MAIL hzpc@hzpc.ca 15. GENUS AND SPECIES NAME OF CROP 16. FAMILY NAME (Botanical) 14. CROP KIND (Common Name) Solanum tuberosum L. Potato Solanaceae DOES THE OWNER SPECIFY THAT SEED OF THIS 17. IS THE VARIETY A FIRST GENERATION HYBRID? 18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL VARIETY BE SOLD ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection A YES A NO ☐ YES NO IF YES, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION. П YES (If "yes", answer items 21 and 22 below) 84, 82 NO (If "no", go to item 23) П UNDECIDED 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO 19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED NUMBER OF CLASSES? (Follow instructions on reverse) Exhibit A. Origin and Breeding History of the Variety IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED Exhibit B. Statement of Distinctness 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? Exhibit C. Objective Description of Variety ☐ Exhibit D. Additional Description of the Variety (Optional) ☐ YES IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. 0 Exhibit E. Statement of the Basis of the Owner's Ownership CERTIFIED FOUNDATION _ REGISTERED Filing and Examination Fee (\$4,382), make checks payable to "Treasurer of the United States" (If additional explanation is necessary, please use the space indicated on the reverse.)

24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL (Mail to the Plant Variety Protection Office) other methods of payment explained in the instructions 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? PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? YES □ NO VES П мо IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR REFERENCE NUMBER. (Please use space indicated on reverse.)

IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR 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 Interpository or vegetative propagated parent of the variety, at issue culture or vegetative sample will be deposited in a public repository within three months of the date of the certificate fee register (See Fig. 19) will be replaintained for the duration of the certificate."

The undersigned owner(s) is (are) the owner(s) of this sexually (produced or tuber by pregative 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 sexual of the variety of vegetative protection and result in penalties. SIGNATURE OF OWNER SIGNATURE OF OWNER

NAME (Please print or type)

2013

NAME (Please print or type)

CAPACITY OR TITLE

R.P.Graveland

Manager HZPC R%D

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.)

Date of first sale: 2010/09/30 in Spain

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).)

The Netherlands, ARD 1909, granted 2011/05/18, - EU, 30810, granted 2011/10/10

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
PYPO NUMBER

EXHIBIT A - ORIGIN AND BREEDING HISTORY

Name of Owner

3. Variety Name

HZPC Holland B.V.

HZD 00-277

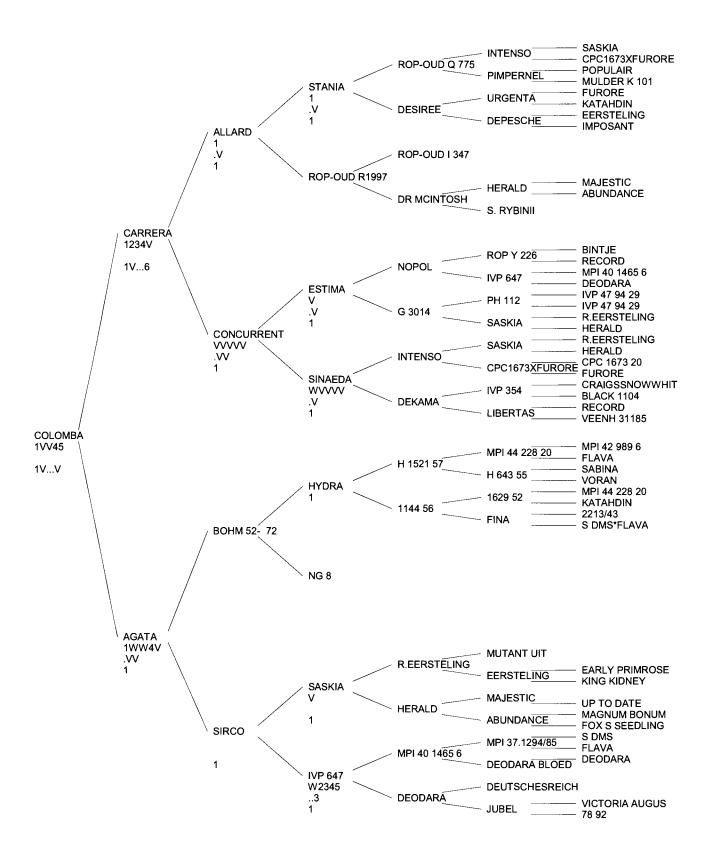
COLOMBA

4. Describe the genealogy (back to and including public and commercial varieties, lines, or clones used) and the breeding method(s). **

COLOMBA originates from the conventional cross: CARRERA (\mathcal{P}) x AGATA (\mathcal{T}). See also attached genealogy sheet.

The cross was made in 1999 at HZPC R&D in Metslawier, The Netherlands. The variety is selected from the F1 of the cross first in 2000.

5. Give the details of subsequen	nt stages of selection and multiplication. **	
Year	Detail of Stage	Selection Criteria
1999	Cross: CARRERA x AGATA was made	N.A.
2000	True seed sown in glasshouse	
	and clone (1 tuber) harvested	N.A.
2001-2002	1st and 2nd year field clone	Agronomic characters
2002-2008	Field tests in many countries	Resistances, quality, agronomic
2008-2009	Application for protection NLD and EU	N.A.
2008-onwards	Introduction of variety in potential market	
2010	Furst commercialisation	N.A.
6. Is the variety uniform?	✓ YesNo	
How did you test for uniformity	?	
Variety has been mul	tiplied and observed according to UPOV regula	ations for more than 10 years and has been
found to be uniform.		-
Variety has finally pro	oven to be uniform in DUS trials of the "Raad v	an Plantenrassen" in The Netherlands.
7. Is the variety stable? ✓	YesNo	
How did you test for stability?	Over how many generations?	
Variety has been m	ultiplied and observed according to UPOV r	regulations for more than 10 years and it
has been found to b		
Variety has finally p	roven to be stable in DUS trials of the "Raa	d van Plantenrassen" in The Netherlands.
8. Are genetic variants observe	d or expected during reproduction and multiplication?Yes	✓ No
If yes, state how these variants	may be identified, their type and frequency.	



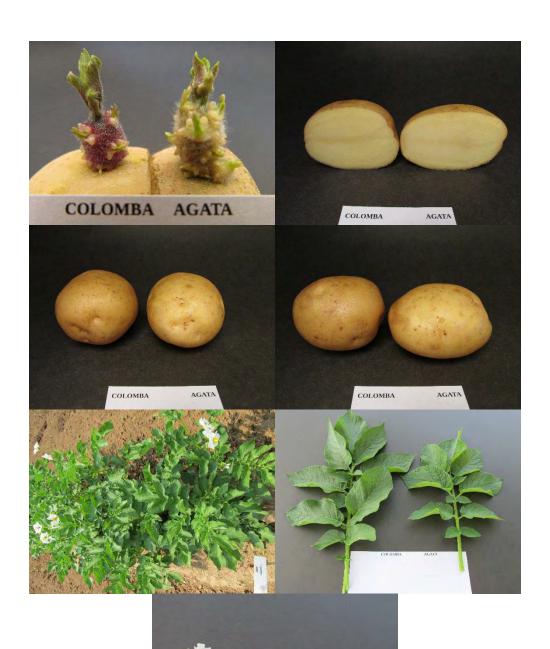
Location of Evidence

Exhibit B Form

•	nology, COLOMBA is most	t similar toAGATA Most similar comparison variety(i	ies)
COLOMBA most clear Applicant's new variety	· · · · · · · · · · · · · · · · · · ·	TA in the following ilar comparison variety(ies)	traits:
appropriate supporting	then list the value of that tra evidence (see the Guidelines vailable from the PVP Office	s for Presenting Evidence in	_
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
Qualitative traits:	Applicant's New Variety COLOMBA	1st Comparison Variety AGATA	Location of Evidence
Lightsprout shape	Conical	Broad cylindrical	Photograph
2. Color traits:			Location of Evidence
Flesh Color	Yellow	Light yellow	Photograph
3. Quantitative traits:			Location of Evidence

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

4. Other:



R1

R2

R3

2. LIGHT SPROUT CHARACTERISTICS: (continued)

LIGHT SPROUT TIP: PUBESCENCE

1 = Absent

2 = Weak

3 = Medium

4 = Strong

5 = Very Strong



R1

R2

R3

R4

LIGHT SPROUT TIP ANTHOCYANIN COLORATION

2 = Red-violet

3 = Blue-violet

4 = Other(describe)



R1

R2

R3

R4

LIGHT SPROUT TIP: INTENSITY OF ANTHOCMANIN COLORATION (IF PRESENT)

1 = Absent

2 = Weak

3 = Medium

4 = Strong

5 = Very Strong



R1

R2

R3

R4

LIGHT SPROUT ROOT INITIALS: FREQUENCY

R1

1 = Absent

2 = Some

3 = Abundant



R3

R4

3. PLANT CHARACTERISTICS:

GROWTH HABIT: (See Figure 2)

3 = Erect (>45° with ground)

5 = Semi-erect (30-45° with ground)

7 = Spreading



R1

R2

R3

R4

TYPE:

1 = Stem (Øoliage open, stems clearly visible)

2 = Intermediate

3 = Leaf (Foliage closed, stems hardly visible)



R1

R2

R3

R4

MATURITY: Days after planting (DAP) at vine senescence



R1

R2

R3

R4

PLANTING DATE:

V

R1

R2

R3

R4

*REGIONAL AREA:

1 = Pacific North West (WA, OR, ID, CO, CA) 4 = Mid-Atlantic Erect (VI, NC, SC, South NJ, FL)

2 = North Central (ND, WI, MI, MN, OH) 5 = South (LA, TX, AZ, NE)

3 = North East (ME, NY, PA, NJ, MD, MA, RI,) 6 = Canada

7 = Europe

8 = England

9 = Latin America

10 = Brazil

11 = Other

R4

V

R1

R2

R3

MATURITY CLASS:

1 = Very Early (<100 DAP) 2 = Early (100-110 DAP) 3 = Mid-season (111-120 DAP) 4 = Late (121-130 DAP) 5 = Very Late (>130 DAP).



R1

R2

R3

4. STEM CHARACTERISTICS: Measure at early first bloom

* STEM ANTHOCYANIN COLORATION:

1 = Absent 3= Weak 5 = Medium 7 = Strong 9 = Very Strong



R1

R2

R3

R4

STEM WINGS: (See Figure 3)

1 = Absent 3 = Weak 5 = Medium 7 = Strong 9 = Very Strong



R1

R2

R3

R4

5. LEAF CHARACTERISTICS:

LEAF COLOR: (Observe fully developed leaves located on middle 1/3 of plant)

1 = Yellowing-green 2 = Olive-green 3 = Medium Green 4 = Dark Green 5 = Grey-green 6 = Other ___



R1

R2

R3

R4

LEAF COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Observe fully developed leaves located on middle 1/3 of plant and circle the appropriate color chart)



R1

R2

R3

R4

LEAF PUBESCENCE DENSITY:

1 = Absent 2 = Sparse 3 = Medium 4 = Thick 5 = Heavy



R1





R4

LEAF PUBESCENCE LENGTH:

1 = None 2 = Short 3 = Medium 4 = Long 5 = Very Long



R1

R2

R3

R4

(Note Descriptor #15 can be used to describe the type and length of the glandular trichomes observed.)

* LEAF SILHOUETTE: (See Figure 4)

1 = Closed 3 = Medium 5 = Open



R1

R2

R3

R4

PETIOLES ANTHOCYANIN COLORATION:

1 = Absent 3 = Weak 5 = Medium 7 = Strong 9 = Very Strong



R1

R2

R3

R4

LEAF STIPULES SIZE: (Se Figure 5)

1 = Absent 3 = Small 5 = Medium 7 = Large



R1

R2

R3

R4

TERMINAL LEAFLET SHAPE (See Figures 6 and 7)

1 = Narrowly ovate 2 = Medium Ovate 3 = Broadly Ovate 4 = Lanceolate 5 = Elliptical 6 = Obovate 7 = Oblong 8 = Other ______



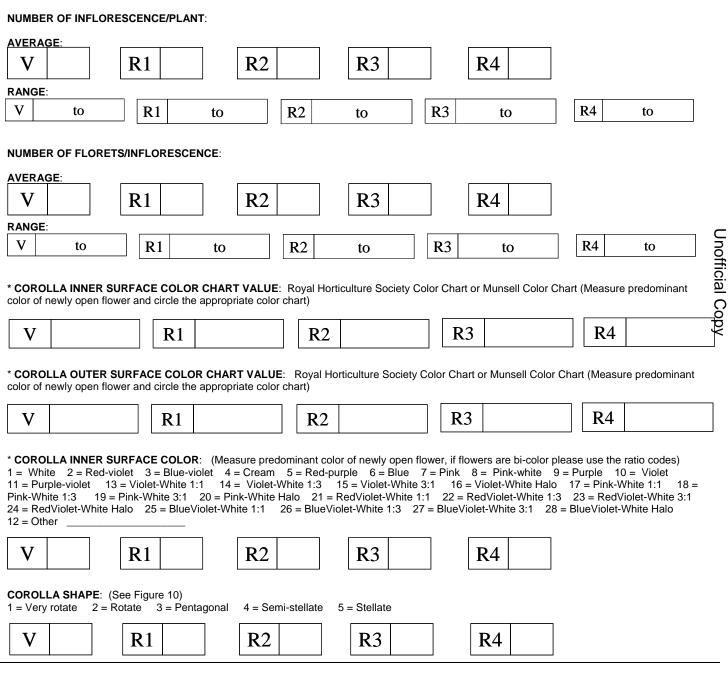
R1

R2

R3

5. LEAF CHARACTERISTICS: (continued)

TERMINAL LEAFLET TIP SHAPE: (See Figures 6 and 8) 2 = Cuspidate 3 = Acuminate4 = Obtuse5 = Other1 = AcuteR1R2 R3 R4 * TERMINAL LEAFLET BASE SHAPE: (See Figure 9) 3 = Obtuse5 = Truncate 7 = Other2 = Acute4 = Cordate 6 = Lobed1 = Cuneate **R**1 R2 R3 R4 **TERMINAL LEAFLET MARGIN WAVINESS:** 2 = Slight 3 = Weak 4 = Medium 5 = Strong**R**3 R4 R1R2 NUMBER OF PRIMARY LEAFLET PAIRS: (See Figure 6) AVERAGE: R4 R3 **R**1 R2 V RANGE: R4 V R1 R2 **R**3 to to to to to PRIMARY LEAFLET TIP SHAPE: (See Figures 6 and 8) 1 = Acute2 = Cuspidate 3 = Acuminate 4 = Obtuse5 = OtherR2 R3 R1 R4 PRIMARY LEAFLET SIZE: 1 = Very Small 5 = Very Large 2 = Small3 = Medium4 = Large **R3** R4 **R**1 **R**2 PRIMARY LEAFLET SHAPE: (See Figures 6 and 7) 1 = Narrowly ovate 2 = Medium ovate 3 = Broadly ovate 4 = Lanceolate 5 = Elliptical 6 = Ovate 7 = Oblong 8 = Other _ **R**1 R2 R3 R4 PRIMARY LEAFLET BASE SHAPE: (See Figures 6 and 9) 3 = Obtuse 5 = Truncate 1 = Cuneate 2 = Acute 4 = Cordate 6 = Lobed $7 = Other_$ **R**1 R2 R3 R4 NUMBER OF SECONDARY AND TERTIARY LEAFLET PAIRS: (See Figure 6) AVERAGE: R2 R1R3 R4 RANGE: V R4 R2 R3 to R1 to to to to



6. INFLORESCENCE CHARACTERISTICS:

CALYX ANTHOCYANIN COLORATION:

1 = Absent 3 = Weak 5 = Medium 7 = Strong 9 = Very strong

| V | |

R1

R2

R3

R4

ANTHER COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsel Color Chart (Measure when newly opened flower is fully expanded and circle the appropriate color chart)

V

R1

R2

R3

R4

ANTHER SHAPE: (See Figure 11)

1 = Broad cone 2 = Narrow cone 3 = Pear-shaped cone 4 = Loose 5 = Other

V

R1

R2

R3

Unofficial Copy

Exhibit C (Potato) 6. INFLORESCENCE CHARACTERISTICS: (continued) **POLLEN PRODUCTION:** 5 = Abundant1 = None3 = SomeR1R2 **R**3 R4 STIGMA SHAPE: (See Figure 12) 2 = Clavate 3 Bi-lobed 1 = Capitate R2 **R**3 R1 R4 STIGMA COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsel Color Chart (Circle the appropriate color chart) **R**3 R4 **R**1 **R**2 BERRY PRODUCTION: (Under field conditions) 7 = Heavy 1 = Absent3 = Low5 = Moderate 9 = Very Heavy R2 R1 R3 **R**4 7. TUBER CHARACTERISTICS: * PREDOMINANT SKIN COLOR: 1 = White 2 = Light Yellow 3 = Yellow4 = Buff5 = Tan6 = Brown7 = Pink8 = Red9 = Purplish-red 10 = Purple 11 = Dark purple-black 12 = OtherR1 R2 **R3** R4 PREDOMINANT SKIN COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart) R3 R4 **R**1 R2 SECONDARY SKIN COLOR: 1 = Absent2 = Present (please describe) R4 R3 **R**1 R2 SECONDARY SKIN COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color)

V R1	R2	R3	R4	
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SECONDARY SKIN COLOR DISTRIBUTION: (See Figure 13)

5 = Spectacled 3 = Splashed 4 = Scattered $7 = Other_$ 1 = Eyes 2 = Eyebrows 6 = Stippled

R1R2 R3 R4

SKIN TEXTURE:

2 = Rough (flaky) 3 = Netled4 = Russetted 6 = Other1 = Smooth5 = Heavily russetted

R2 **R**1 **R3** R4

7. TUBER CHARACTERISTICS: (continued)

ER CHARACTERISTICS: (continued)
* TUBER SHAPE: (See Figure 14) 1 = Compressed 2 = Round 3 = Oval 4 = Oblong 5 = Long 6 = Other
V R1 R2 R3 R4
TUBER THICKNESS: 1 = Round 2 = Medium thick 3 = Slightly flattened 4 = Flattened 5 = Other
V R1 R2 R3 R4
TUBER LENGTH (mm):
AVERAGE:
V
RANGE:
V to R1 to R2 to R3 to R4 to
STANDARD DEVIATION:
V R1 R2 R3 R4
AVERAGE WEIGHT OF SAMPLE TAKEN:
V R1 R2 R3 R4
TUBER WIDTH (mm)
AVERAGE:
V R1 R2 R3 R4
RANGE:
V to R1 to R2 to R3 to R4 to
STANDARD DEVIATION:
V R1 R2 R3 R4
AVERAGE WEIGHT OF SAMPLE TAKEN (g):

R2

R1

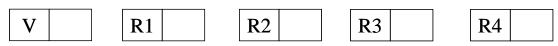
R4

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7. TUBER CHARACTERISTICS: (continued)

TUBER THICKNESS (mm):

AVERAGE:



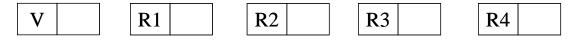
RANGE:

V	to	R1	to	R2	to] [R3	to		R4	to]
•	•		**		1	1 1			1 '	oxdot	1	┙

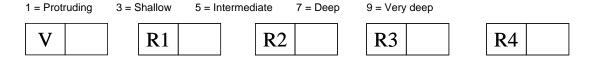
STANDARD DEVIATION:



AVERAGE WEIGHT OF SAMPLE TAKEN (g):



TUBER EYE DEPTH:

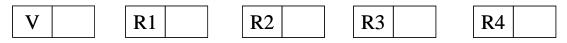


TUBER LATERAL EYES:



NUMBER EYE/TUBER:

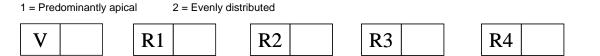
AVERAGE:



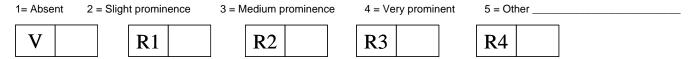
RANGE:

V to R1 to R2 to R3 to R4	to
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DISTRIBUTION OF TUBER EYES:



PROMINENCE OF TUBER EYEBROWS:



1 = White 2 = Light Yellow 3 = Yellow 4 = Buff5 = Tan6 = Brown7 = Pink8 = Red9 = Purplish-red 10 = Purple 11 = Dark purple-black 12 = Other

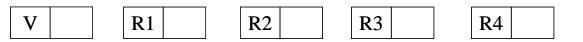
R3 R4 V **R**1 R2

PRIMARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)

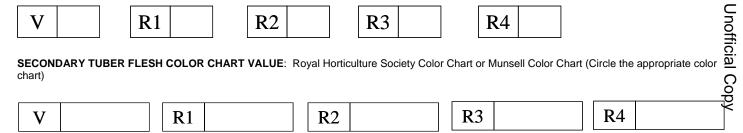
R3 R4 **R**1 R2

SECONDARY TUBER FLESH COLOR:

1 = Absent2 = Present, please describe:

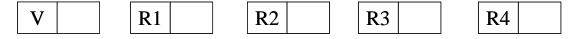


SECONDARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)



NUMBER OF TUBERS/PLANT:

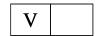
2 = Medium (8-15)3 = High (>15)1 = Low (< 8)



8. DISEASES CHARACTERISTICS:

DISEASES REACTION: 0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Lessions in Number and Size 4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible 7 = Susceptible 9 = Highly Susceptible

LATE BLIGHT: (Phytophthora)



R1

R2

R3

R4

EARLY BLIGHT: (Alternaria)



R1

R2

R3

R4

SOFT ROT (Erwinia)



R1

R2

R3

R4

COMMON SCAB (Streptomyces)



R1

R2

R3

R4

POWDERY SCAB (Spongospora)



R1

R2

R3

R4

DRY ROT (Fusarium)



R1

R2

R3

R4

POTATO LEAF ROLL VIRUS (PLRV)



R1

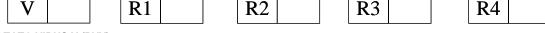
R2

R3

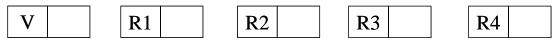
8. DISEASES CHARACTERISTICS: (continued)

POTATO VIRUS X (PVX)





POTATO VIRUS Y (PVY)

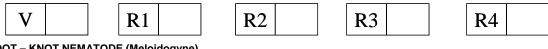


POTATO VIRUS M (PVM)

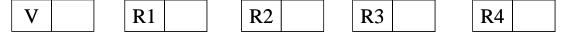
POTATO VIRUS A (PVA)



GOLDEN NEMATODE (Globodera)



ROOT – KNOT NEMATODE (Meloidogyne)



OTHER DISEASE

V	R1	R2	R3	R4

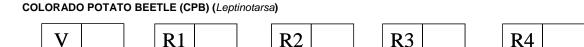
PHYSIOLOGICAL DISORDER

- 1 = Malformed shape 2 = Tuber cracking 3 = Feathering 4 = Hollow heart 5 = Internal necrosis 6 = Blackheart 7 = Internal sprouting 8 = Other
- **R2 R3** R1R4

9. PESTS CHARACTERISTICS:

PEST REACTION: 0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Lessions in Number and Size 4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible

7 = Susceptible 9 = Highly Susceptible



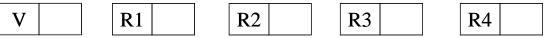
GREEN PEACH APHID (Myzus)

_										
			,				-		,	
	V		R1		R2		R 3		R4	
- 1	•						110			

OTHER:

V		R1		R2	R3		R4	
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10. GEI	NE TRAITS:					
	INSERTION OF GI	ENES : 1 = YES 2 =	NO			
	IF YES, describe th	ne gene(s) introduced o	or attach information:			
11. QU	ALITY CHARACTER	RISTICS:				
	CHIEF MARKET:					
		ΓΥ (wt. air/wt. air – wt. v				
	1 = <1.060 2 =	= 1.060-1.069 3 =	1.070-1.079 4 = 1.08	30-1.089 5 = >1.09	0	
	V	R1	R2	R3	R4	
	TOTAL GLYCOAL	.KALOID CONTENT (m	ng./100 g. fresh tuber)			
	V	R1	R2	R3	R4	(
OTHER baking,	QUALITY CHARACT boiling, after-cooking	TERISTICS: Describe darkening). Please att	any other quality characterist ach data and correspond	eristics that may aid in ing protocol.	identification, (e.g., chip-processing,	french fry processing,
12. CH	EMICAL IDENTIFICA	ATION:				
		e candidate variety that	t aid in its identification (e	.g., protien or DSN ele	ctrophoresis). Please attach data an	d the corresponding
protocol	•					
13. FIN	GER PRINTING MAI	RKERS:				
	ISOZYMES 1 = Y	YES 2 = NO				
	IF YES, attach info	rmation				
14. DN	A PROFILE: 1 = YE	ES 2 = NO				
	IF YES, attach info	rmation				
15. ADI	DDITIONAL COMME	NTS AND CHARACTE	ERISTICS:			
Include	any additional descrip	ptors that would be usef	ful in distringuishing the c	andidate variety.		

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE		FOR OFFICIAL USE ONLY	
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE		PVPO NUMBER	
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE			
EXHIBIT E - STATEMENT OF THE BASIS OF OWNERSHIP			
1. Name of Owner	2. Temporary Designation or Experimental Name	3. Variety Name	
1. HZPC Holland B.V.	HZD 00- 277	COLOMBA	
4. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.			
E table configuration to the c			
5. Is the applicant a U.S. national or a U.S. based entity? If	no, give name of country.	No	
The Netherlands	_		
6. 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 The Netherlands 7. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):			
PLEASE NOTE:	APP .		
Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:		
If the rights to the variety are owned by the original breeds national of a country which affords similar protection to na		JPOV member country, or	
2. If the rights to the variety are owned by the company which nationals of a UPOV member country, or owned by nation			

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.

genus and species.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

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

EXHIBIT F DECLARATION REGARDING DEPOSIT

DECLARATION REGARDING DEPOSIT			
HZPC Holland B.V.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) P.O. Box 88 NL-8500 AB Joure The Netherlands	TEMPORARY OR EXPERIMENTAL DESIGNATION HZD 00- 277	
		VARIETY NAME COLOMBA	
NAME OF OWNER REPRESENTATIVE (S) HZPC Americas Corp.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 19, Regis Duffy Drive West Royalty, C1E OK5 Charlottetown P.E.I. Canada	FOR OFFICIALUSE ONLY PVPO NUMBER	

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

