



No.

202000280

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Sjouke Brunia, Simon Brunia, Klaziena Brunia-Winter,
Maria van der Stelt-Brunia**

Whereas, THERE HAS BEEN PRESENTED TO THE

Administrator of the Agricultural Marketing Service

An application requesting a certificate of protection for an alleged novel variety of sexually reproduced, asexually 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 germplasm material 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.)



POTATO

'Autumn Rose'

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 ninth day of November, in the year two thousand twenty one.*

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Administrator
Agricultural Marketing Service

REPRODUCE LOCALLY. Include form number and date on all reproductions

Form Approved - CMB No. 0581-0055

<p>U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE</p> <p>APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE <i>(Instructions and information collection burden statement on reverse)</i></p>		<p><i>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.</i></p> <p><i>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)</i></p>	
1. NAME OF OWNER Sjouke Brunia, Simon Brunia, Klazien Brunia-Winter, Maria van der Stelt-Brunia		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME KW10-384	3. VARIETY NAME Autumn Rose
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Weg van Rollecate 19A 8325 CP Vollenhove Netherlands		5. TELEPHONE (include area code) 31 613486678	FOR OFFICIAL USE ONLY PVPO NUMBER 202000280
7. IF THE OWNER NAMED IS NOT A PERSON, GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION 10/24/2019
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Solanum International Inc. 4 Legend Trail Stony Plain AB T7Z 0B1		11. TELEPHONE (include area code) 780-963-6708	F E E S R E C D FILING AND EXAMINATION FEES. \$ DATE
13. E-MAIL thea@solanum-int.com		12. FAX (include area code) 780-963-4737	CERTIFICATION FEE: \$ DATE
14. CROP KIND (Common Name) Potato	15. GENUS AND SPECIES NAME OF CROP Solanum tuberosum L.	16. FAMILY NAME (Botanical) Solanaceae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="radio"/> YES <input checked="" type="radio"/> NO	18. DOES THE VARIETY CONTAIN ANY BIOTECHNOLOGY EVENTS? <input type="radio"/> YES <input checked="" type="radio"/> NO <small>A biotechnology event is defined as a single insertion of a nucleic acid construct into a specific site in a plant's chromosome that is regulated under the U.S. Coordinated Framework for the Regulation of Biotechnology.</small>	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 type="radio"/> YES (if "yes", answer items 21 and 22 below) <input checked="" type="radio"/> NO (if "no", go to item 23) <input type="radio"/> UNDECIDED	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions) 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 and money orders payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) ✓ Credit Card Payments (See instructions on Page 2 of 11)		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="radio"/> YES <input type="radio"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
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 checked="" type="radio"/> YES <input type="radio"/> 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 next page.)		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="radio"/> YES <input type="radio"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. ___ FOUNDATION ___ REGISTERED ___ CERTIFIED (If additional explanation is necessary, please use the space indicated on next page.)	
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.		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="radio"/> YES <input type="radio"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on next page.)	
The undersigned owner(s) is(are) the owner 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) THEA BAKKER		NAME (Please print or type)	
CAPACITY OR TITLE AGENT	DATE Oct 24, 2019	CAPACITY OR TITLE	DATE

Continuation Page from ST – 470 (Application for Plant Variety Protection Certificate)

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.)*

USA 2019-02-01

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).)*

Being applied in Canada

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
1. Name of Owner Spouke Brunia, Simon Brunia, Klazina Brunia-Winter, Maria van der Stelt-Brunia	2. Temporary Designation or Experimental Name KW10-384	3. Variety Name Autumn Rose
4. Describe the genealogy (back to and including public and commercial varieties, lines, or clones used) and the breeding method(s) ** The variety 'Autumn Rose' (experimental number KWS10-384) originated in the Aardappelweek bedrijf S. Brunia breeding program. The variety is the result of classical hybridization breeding. No gene insertion was involved in the breeding of 'Autumn Rose' or its parents. In 2010, a cross was made at the Aardappelweek bedrijf S. Brunia breeding station in Kraggenburg, Netherlands between 'BRS 94-164' ♀ and 'Cecile' ♂. Seed from the cross were seeded in the greenhouse in 2011. The resulting tubers were harvested and planted in the field in Kraggenburg, Netherlands in the spring of 2012. One of the selection from the progeny was given the designation KWS10-384 in 2013.		
5. Give the details of subsequent stages of selection and multiplication **		
Year	Detail of Stage	Selection Criteria
2010	Cross of BRS 94-164 and Cecile	No
2011	Seed seeded in the greenhouse	No
2012	Tuberling planted in the field	Tuber number, skin color, flesh color
2013	Selected as KWS 10-384	Tuber number, skin color, flesh color
2014 to 2018	Field evaluation in Europe, Canada, USA	Tuber number, skin color, flesh color, storability, culinary value
2019	Application for US PVP and Canadian PBR	
6. Is the variety uniform? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No How did you test for uniformity? Field evaluated since 2013 and found to be uniform.		
7. Is the variety stable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No How did you test for stability? Over how many generations? Field evaluated for 4 generations and found to be stable.		
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.		PVPO NUMBER	
1. Name of Owner Sjouke Brunia, Simon Brunia, Klazina Brunia-Winter, Mana van der Stelt-Brunia	2. Temporary Designation or Experimental Name KW 10-384	3. Variety Name <h2 style="text-align: center;">Autumn Rose</h2>	
Based on overall morphology, <u>Autumn Rose</u> is most similar to <u>Elmo</u> <i>Applicant's new variety</i> <i>Most similar comparison variety(ies)</i> <u>Autumn Rose</u> most clearly differs from <u>Elmo</u> in the following traits: <i>Applicant's new variety</i> <i>Most similar comparison variety(ies)</i>			
Name the specific trait. Then list the value of that trait for each variety in the comparison. Submit appropriate supporting evidence (see the Guidelines for Presenting Evidence in Support of Variety Distinctness in the instructions below).			
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:	Applicant's New Variety <u>Autumn Rose</u>	1 st Comparison Variety <u>Elmo</u>	Location of Evidence Within the Application
Growth habit	Spreading	Semi-erect	Photo
2. Color traits:			
Corolla inner surface colour	2 - Red-violet 83B RHS	23- Red violet-white 1:3 88B RHS	RHS
3. Quantitative traits:			
4. Other:			

PVP APPLICATION 'Autumn Rose'

BREEDERS

- 1- Sjouke Brunia
Weg van Rollecate 19A
8325 CP Vollenhove
Netherlands

Tel: 01131 613486678
s.brunia@kpnplanet.nl

- 2- Simon Brunia
Moespot 1
8325 PB Vollenhove
Netherlands

Tel: 01131 613382006
sb78@live.nl

- 3- Klaziena Brunia-Winter
Weg van Rollecate 19A
8325 CP Vollenhove
Netherlands

Tel: 01131 613486678
s.brunia@kpnplanet.nl

- 4- Maria van der Stelt-Brunia
Drieroeder 8
8281 HR Genemuiden
Netherlands

Tel: 01131 610174329
rcvdstelt@home.nl

NAME OF APPLICANT (S) See attached list	TEMPORARY OR EXPERIMENTAL DESIGNATION KW10-384	VARIETY NAME Autumn Rose
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country)		FOR OFFICIAL USE ONLY PVPO NUMBER

1. MARKET CHARACTERISTICS:

2 **MARKET CLASS:**
1 = Yellow-flesh Tablestock 2 = Round-white Tablestock 3 = Chip-processing 4 = Frozen-processing
5 = Russet Tablestock 6 = Other Red SKin tablestock

2. LIGHT SPROUT CHARACTERISTICS: (See Figure 1)

4 **LIGHT SPROUT: GENERAL SHAPE**
1 = Spherical 2 = Ovoid 3 = Conica 4 = Broad cylindrical 5 = Narrow cylindrical 6 = Other _____

2 **LIGHT SPROUT BASE: PUBESCENCE OF BASE**
1 = Absent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong

2 **LIGHT SPROUT BASE: ANTHOCYANIN COLORATION**
1 = Green 2 = Red-violet 3 = Blue-violet 4 = Other(describe) _____

5 **LIGHT SPROUT BASE: INTENSITY OF ANTHOCYANIN COLORATION (IF PRESENT)**
1 = Absent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong

2 **LIGHT SPROUT TIP: HABIT**
1 = Closed 2 = Intermediate 3 = Open

2 **LIGHT SPROUT TIP: PUBESCENCE**
1 = Absent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong

2 **LIGHT SPROUT TIP ANTHOCYANIN COLORATION**
1 = Green 2 = Red-violet 3 = Blue-violet 4 = Other(describe) _____

2 **LIGHT SPROUT TIP: INTENSITY OF ANTHOCANIN COLORATION (IF PRESENT)**
1 = Absent 2 = Weak 3 = Medium 4 = Strong 5 = Very Strong

2 **LIGHT SPROUT ROOT INITIALS: FREQUENCY**
1 = Absent 2 = Some 3 = Abundant

3. PLANT CHARACTERISTICS:

7 **GROWTH HABIT:** (See Figure 2)
3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) 7 = Spreading

2 **TYPE:**
1 = Stem (foliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage closed, stems hardly visible)

____ **MATURITY: Days after planting (DAP) at vine senescence**

PLANTING DATE: June 2019

6 **REGIONAL AREA:**
1 = Pacific North West (WA, OR, ID, CO, CA) 2 = North Central (ND, WI, MI, MN, OH) 3 = North East (ME, NY, PA, NJ, MD, MA, RI.)
4 = Mid-Atlantic Erect (VI, NC, SC, South NJ, FL) 5 = South (LA, TX, AZ, NE) 6 = Canada
7 = Europe 8 = England 9 = Latin America 10 = Brazil 11 = Other _____

4 **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).

4. STEM CHARACTERISTICS: Measure at early first bloom
1 = Absent 3 = Weak 5 = Medium 7 = Strong 9 = Very Strong

5 **STEM ANTHOCYANIN COLORATION:**

3 **STEM WINGS:** (See Figure 3)

5. LEAF CHARACTERISTICS:

4 **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 _____

^{147A} **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*)

2 **LEAF PUBESCENCE DENSITY:**
 1 = Absent 2 = Sparse 3 = Medium 4 = Thick 5 = Heavy

2 **LEAF PUBESCENCE LENGTH:**
 1 = None 2 = Short 3 = Medium 4 = Long 5 = Very Long

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

3 **LEAF SILHOUETTE:** (See Figure 4)
 1 = Closed 3 = Medium 5 = Open

7 **PETIOLES ANTHOCYANIN COLORATION:**
 1 = Absent 3 = Weak 5 = Medium 7 = Strong 9 = Very Strong

5 **LEAF STIPULES SIZE:** (See Figure 5)
 1 = Absent 3 = Small 5 = Medium 7 = Large

2 **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 _____

1 **TERMINAL LEAFLET TIP SHAPE:** (See Figures 6 and 8)
 1 = Acute 2 = Cuspidate 3 = Acuminate 4 = Obtuse 5 = Other _____

3 **TERMINAL LEAFLET BASE SHAPE:** (See Figure 9)
 1 = Cuneate 2 = Acute 3 = Obtuse 4 = Cordate 5 = Truncate 6 = Lobed 7 = Other _____

3 **TERMINAL LEAFLET MARGIN WAVINESS:**
 1 = Absent 2 = Slight 3 = Weak 4 = Medium 5 = Strong

NUMBER OF PRIMARY LEAFLET PAIRS: (See Figure 6)

AVERAGE: 5.0

RANGE: 5 to 5

1 **PRIMARY LEAFLET TIP SHAPE:** (See Figures 6 and 8)
 1 = Acute 2 = Cuspidate 3 = Acuminate 4 = Obtuse 5 = Other _____

4 **PRIMARY LEAFLET SIZE:**
 1 = Very Small 2 = Small 3 = Medium 4 = Large 5 = Very Large

1 **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 _____

3 **PRIMARY LEAFLET BASE SHAPE:** (See Figures 6 and 9)
 1 = Cuneate 2 = Acute 3 = Obtuse 4 = Cordate 5 = Truncate 6 = Lobed 7 = Other _____

NUMBER OF SECONDARY AND TERTIARY LEAFLET PAIRS: (See Figure 6)

AVERAGE: 7.6

RANGE: 7 to 8

NUMBER OF INFLORESCENCE/PLANT:

AVERAGE: 2.0

RANGE: 1 to 3

NUMBER OF FLORETS/INFLORESCENCE:

AVERAGE: 8.4

RANGE: 5 to 10

5. LEAF CHARACTERISTICS: (continued)

88B **COROLLA INNER SURFACE COLOR CHART VALUE:** Royal Horticulture Society Color Chart or Munsell Color Chart (Measure predominant color of newly open flower and circle the appropriate color chart)

88C **COROLLA OUTER SURFACE COLOR CHART VALUE:** Royal Horticulture Society Color Chart or Munsell Color Chart (Measure predominant color of newly open flower and circle the appropriate color chart)

2 **COROLLA INNER SURFACE COLOR:** (Measure predominant color of newly open flower, if flowers are bi-color please use the ratio codes)
 1 = White 2 = Red-violet 3 = Blue-violet 4 = Cream 5 = Red-purple 6 = Blue 7 = Pink 8 = Pink-white 9 = Purple 10 = Violet
 11 = Purple-violet 13 = Violet-White 1:1 14 = Violet-White 1:3 15 = Violet-White 3:1 16 = Violet-White Halo 17 = Pink-White 1:1 18 = Pink-White 1:3 19 = Pink-White 3:1 20 = Pink-White Halo 21 = RedViolet-White 1:1 22 = RedViolet-White 1:3 23 = RedViolet-White 3:1 24 = RedViolet-White Halo 25 = BlueViolet-White 1:1 26 = BlueViolet-White 1:3 27 = BlueViolet-White 3:1 28 = BlueViolet-White Halo
 12 = Other _____

2 **COROLLA SHAPE:** (See Figure 10)
 1 = Very rotate 2 = Rotate 3 = Pentagonal 4 = Semi-stellate 5 = Stellate

6. INFLORESCENCE CHARACTERISTICS:

3 **CALYX ANTHOCYANIN COLORATION:**
 1 = Absent 3 = Weak 5 = Medium 7 = Strong 9 = Very strong

17A **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)

2 **ANTHER SHAPE:** (See Figure 11)
 1 = Broad cone 2 = Narrow cone 3 = Pear-shaped cone 4 = Loose 5 = Other

-- **POLLEN PRODUCTION:**
 1 = None 3 = Some 5 = Abundant

1 **STIGMA SHAPE:** (See Figure 12)
 1 = Capitate 2 = Clavate 3 = Bi-lobed

146A **STIGMA COLOR CHART VALUE:** Royal Horticulture Society Color Chart or Munsel Color Chart (Circle the appropriate color chart)

1 **BERRY PRODUCTION:** (Under field conditions)
 1 = Absent 3 = Low 5 = Moderate 7 = Heavy 9 = Very Heavy

7. TUBER CHARACTERISTICS:

8 **PREDOMINANT SKIN COLOR:**
 1 = White 2 = Light Yellow 3 = Yellow 4 = Buff 5 = Tan 6 = Brown 7 = Pink 8 = Red 9 = Purplish-red
 10 = Purple 11 = Dark purple-black 12 = Other _____

51A **PREDOMINANT SKIN COLOR CHART VALUE:** Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)

1 **SECONDARY SKIN COLOR:**
 1 = Absent 2 = Present (please describe)

N.A. **SECONDARY SKIN COLOR CHART VALUE:** Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color)

N.A. **SECONDARY SKIN COLOR DISTRIBUTION:** (See Figure 13)
 1 = Eyes 2 = Eyebrows 3 = Splashed 4 = Scattered 5 = Spectacled 6 = Stippled 7 = Other _____

1 **SKIN TEXTURE:**
 1 = Smooth 2 = Rough (flaky) 3 = Netled 4 = Russetted 5 = Heavily russetted 6 = Other _____

3 **TUBER SHAPE:** (See Figure 14)
 1 = Compressed 2 = Round 3 = Oval 4 = Oblong 5 = Long 6 = Other _____

2 **TUBER THICKNESS:**
 1 = Round 2 = Medium thick 3 = Slightly flattened 4 = Flattened 5 = Other _____

TUBER LENGTH (mm):

AVERAGE: 72.3

RANGE: 63 to 82

6.0 STANDARD DEVIATION:

127 **AVERAGE WEIGHT OF SAMPLE TAKEN:**

7. TUBER CHARACTERISTICS: (continued)**TUBER WIDTH (mm)**AVERAGE: 56.1RANGE: 51 to 60**3.4 STANDARD DEVIATION:****127 AVERAGE WEIGHT OF SAMPLE TAKEN (g):****TUBER THICKNESS (mm):**AVERAGE: 49.5RANGE: 45 to 52**2.8 STANDARD DEVIATION:****127 AVERAGE WEIGHT OF SAMPLE TAKEN (g):****5 TUBER EYE DEPTH:**

1 = Protruding 3 = Shallow 5 = Intermediate 7 = Deep 9 = Very deep

5 TUBER LATERAL EYES:

1 = Protruding 3 = Shallow 5 = Intermediate 7 = Deep 9 = Very deep

NUMBER EYE/TUBER:AVERAGE: 8.8RANGE: 7 to 10**2 DISTRIBUTION OF TUBER EYES:**

1 = Predominantly apical 2 = Evenly distributed

2 PROMINENCE OF TUBER EYEBROWS:

1 = Absent 2 = Slight prominence 3 = Medium prominence 4 = Very prominent 5 = Other _____

1 PREDOMINANT TUBER FLESH COLOR1 = White 2 = Light Yellow 3 = Yellow 4 = Buff 5 = Tan 6 = Brown 7 = Pink 8 = Red 9 = Purplish-red
10 = Purple 11 = Dark purple-black 12 = Other _____**158A PRIMARY TUBER FLESH COLOR CHART VALUE:** Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)**1 SECONDARY TUBER FLESH COLOR:**

1 = Absent 2 = Present, please describe: _____

N.A. SECONDARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)**-- NUMBER OF TUBERS/PLANT:**

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

8. DISEASES CHARACTERISTICS:**DISEASES REACTION:** 0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Lesions in Number and S
4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible 7 = Susceptible 9 = Highly Susceptible0 LATE BLIGHT: (Phytophthora)0 EARLY BLIGHT: (Alternaria)0 SOFT ROT (Erwinia)0 COMMON SCAB (Streptomyces)0 POWDERY SCAB (Spongospora)0 DRY ROT (Fusarium)0 POTATO LEAF ROLL VIRUS (PLRV)0 POTATO VIRUS X (PVX)0 POTATO VIRUS Y (PVY)

8. DISEASES CHARACTERISTICS: (continued)

0 POTATO VIRUS M (PVM)

0 POTATO VIRUS A (PVA)

0 GOLDEN NEMATODE (Globodera)

0 ROOT - KNOT NEMATODE (Meloidogyne)

OTHER DISEASE _____

PHYSIOLOGICAL DISORDER

1 = Malformed shape 2 = Tuber cracking 3 = Feathering 4 = Hollow heart 5 = Internal necrosis 6 = Blackheart 7 = Internal sprouting 8 = Other _____

9. PESTS CHARACTERISTICS:

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

0 COLORADO POTATO BEETLE (CPB) (Leptinotarsa)

0 GREEN PEACH APHID (Myzus)

OTHER: _____

OTHER: _____

10. GENE TRAITS:

2 INSERTION OF GENES: 1 = YES 2 = NO

IF YES, describe the gene(s) introduced or attach information:

11. QUALITY CHARACTERISTICS:

CHIEF MARKET:

SPECIFIC GRAVITY (wt. air/wt. air - wt. water)

1 = <1.060 2 = 1.060-1.069 3 = 1.070-1.079 4 = 1.080-1.089 5 = >1.090

TOTAL GLYCOALKALOID CONTENT (mg./100 g. fresh tuber)

OTHER QUALITY CHARACTERISTICS: Describe any other quality characteristics that may aid in identification, (e.g., chip-processing, french fry processing, baking, boiling, after-cooking darkening). Please attach data and corresponding protocol.

12. CHEMICAL IDENTIFICATION:

Describe chemical traits of the candidate variety that aid in its identification (e.g., protien or DSN electrophoresis). Please attach data and the corresponding protocol.

13. FINGER PRINTING MARKERS:

2 **ISOZYMES** 1 = YES 2 = NO

IF YES, attach information

14. 2 DNA PROFILE: 1 = YES 2 = NO

IF YES, attach information

15. ADDITIONAL COMMENTS AND CHARACTERISTICS:

Include any additional descriptors that would be useful in distinguishing the candidate variety.



Autumn Rose



Autumn Rose



Autumn Rose



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Autumn Rose

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1. Name of Owner Sjouke Brunia, Simon Brunia, Klazina Brunia-Winter, Maria van der Stelt-Brunia	2. Temporary Designation or Experimental Name KW10-384	3. Variety Name Autumn Rose
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4. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. YES NO

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

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

7. Additional explanation on ownership (*Trace ownership from original breeder to current owner*).

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.