200700289

No.



TO ALL TO WHOM THESE PRESENTS SHALL COME;

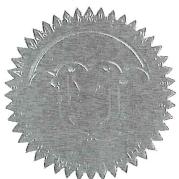
NORIKA Nordring-Kartoffelzucht- und Vermehrungs-GmbH

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 therefrom, to the extent provided by the PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)



Attest:

POTATO

'ALEGRIA'

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 sixteenth day of July, in the year two thousand and twelve.

(35)

Commissioner

Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

KET KODOCE LOCALLT. Illelade form hamber and de	ne on an reprodu	Politi Approved - Omb No. 0561-0055						
U.S. DEPARTMEN AGRICULTURAL N SCIENCE AND TECHNOLOGY - PI	MARKETING SERV	VICE	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 FOR PLANT VAI (Instructions and information coli	RIETY PROTECTS	ON CERTIFICATE	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).					
NAME OF OWNER NORIKA Nord	Iring Kartof	felzucht- und	TEMPORARY DESIGNATION OR EXPERIMENTAL NAME	3. VAI	RIETY NAME	1		
Vermehrungs-			'US 476-94'		ALE	GRIA		
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Coo	de, and Country)	5. TELEPHONE (include area code)	 	FOR O	FICIAL USE	ONLY	
			49-38209 47600	RVPO	NUMBER			
D 18190 Groß Lüsewit	IZ.		6. FAX (include area code)	# 2	200	70	0.2	8 9
Parkweg 4			10 20200 17666	"		8	V 100	0
Germany		,	49-38209 47666		DATE	- ^ -	7	
 IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, association) 		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCORPORATION		1 pril	26, 7	500 (, ,
Corporation		Germany	18/03/1991		• •			
				F	FILING AND	EXAMINATIO	N FEES:	
10. NAME AND ADDRESS OF OWNER REPRESE	ENTATIVE(S) TO S	SERVE IN THIS APPLICATION. (First	person listed will receive all papers)	E E S	s 4.	387.	00	
NORWAN				R	DATE O			7
NORIKA Nordring Kartoffi Vermehrungs- GmbH	elzucht- und	i		E	CERTIFICAT	ON FEE:		`
D 18190 Groß Lüsewitz				E	\$			
Parkweg 4, Germany		×		E	DATE			
11. TELEPHONE (Include area code)	12. FAX (Includ	do ama codo)	13. E-MAIL	D				
49-38209 47600		8209 47666	IS. C-MAIL	info@	norika.	de		,
14. CROP KIND (Common Name)	16. FAMILY N	AME (Bolanical)	18. DOES THE VARIETY CONT.	AIN ANY T	RANSGENES?	(OPTIONAL)		
Potato	Solana	aceae	☐ YES 🧱 NO					
15. GENUS AND SPECIES NAME OF CROP Solanum tuberosum	17. IS THE VAI	RIETY A FIRST GENERATION HYBR	RID? IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERICALIZATION.					
 CHECK APPROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse) 	ACHMENT SUBMI	TTED	20. DOES THE OWNER SPECIF OF CERTIFIED SEED? (Se	Y THAT S e Section	EED OF THIS V 83(a) of the Plan	ARIETY BE S	OLD AS A	CLASS
a. Exhibit A. Origin and Breeding History	of the Variety		YES (If "yes", answer items 21 and 22 below) NO (If "no", go to item 23) 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO					
b. Exhibit B. Statement of Distinctness			NUMBER OF CLASSES?					
c Exhibit C. Objective Description of Var	iety		☐ YES ■ NO					
d. Exhibit D. Additional Description of the	Variety (Optional))	IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO					
e. 🖺 Exhibit E. Statement of the Basis of th	e Owner's Owners	hip	NUMBER OF GENERATIONS?					
f. 🖶 Exhibit F. Declaration Regarding Depo	osit		☐ YES ■ NO					
g Uoucher Sample (3,000 viable untreat that tissue culture will be deposited and								
g. Filing and Examination Fee (\$4,382), in States" (Mail to the Plant Variety Protein	ction Office)		LI FOUNDATION LI REGISTERED LI CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)					
23. HAS THE VARIETY (INCLUDING ANY HARVE FROM THIS VARIETY BEEN SOLD, DISPOSE OTHER COUNTRIES?	STED MATERIAL) D OF, TRANSFER	OR A HYBRID PRODUCED RRED, OR USED IN THE U.S. OR	24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?					7?
YES NO			YES 🗆 NO					
IF YES, YOU MUST PROVIDE THE DATE OF FOR EACH COUNTRY AND THE CIRCUMSTA	FIRST SALE, DIS ANCES. (Please u	POSITION, TRANSFER, OR USE use space indicated on reverse.)	IF YES, PLEASE GIVE COUN REFERENCE NUMBER. (Ple				AND ASSI	GNED
 The owners declare that a viable sample of bas for a tuber propagated variety a tissue culture v 	sic seed of the vari-	ety has been furnished with application a public repository and maintained for	n and will be replenished upon request in a or the duration of the certificate.	ccordance	with such regula	ations as may	be applicat	ole, or
The undersigned owner(s) is are) the owner of entitled to protection under the provisions of Sec	this sexually repro-	duced or tuber propagated plant variet	y, and believe(s) that the variety is new, di	stinct, unifo	orm, and stable a	as required in	Section 42	, and is
Owner(s) is (are) informed that false representa		a productive and the state of t	ties.					
SIGNATURE OF OWNER			SIGNATURE OF OWNER					
NAME (Please print or type)			NAME (Please print or type)		·			
Wolfgang Wal								10
CAPACITY OR TITLE	DATE		CAPACITY OR TITLE	DATE				
Managing Director		20.04.2007						

(See reverse for instructions and information collection burden statement)



0 6 8 9 9 1 0 9 2 3

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

#200700289

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Teeting Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability; and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 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.)

Germany, April 5, 2004

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).)

EC, July 5, 2004

EU 13706

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 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, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

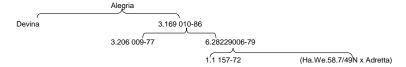
To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A Form

 $1. \ Describe the genealogy (back to and including public and commercial varieties, lines, or clones used) and the breeding method(s).\\$

See attached for the genealogy of Alegria.

Alegria was tested under the experimental designation US 476-94. It resulted from the conventional cross of Divina(\mathcal{D}) and 3.169 010-86(\mathcal{D}). Alegria is derived from the hybridization of the two parents and a phenotypic recurrent selection technique was utilized in its development.



2. Give the details of subsequent stages of selection and multiplication.

Year	Detail of Stage	Selection Criteria
1993	Cross was made in the greenhouse in Groβ Lüsewitz, Germany	None
1993	TPS planted in the greenhouse.	None
1994	Tubers planted in the field and the selection US 476-94 was selected.	Tuber appearance
1995 to	The selection US 476-94 was evaluated in a number of potato trials in different	Yield, resistance to diseases
2002	European locations.	processing qualities and storage qualities
2002 and	Tested for distinctness, uniformity and stability.	Evaluated by UPOV
2003		
2004	Grant of rights EU July 5, 2004	
2004	First sale April 5, 2004	

3a. Is the variety uniform? √Yes No

How did you test for uniformity?

Since it selection Alegria was as exually-propagated via tubers as well as micro-propagated. During the 7 years of field evaluation and field observations, there is no report of variants arising from the in-vitro multiplication indicating it is a stable genotype with uniform morphology.

3b. Is the variety stable? √Yes No

How did you test for stability? Over how many generations?

Since it selection Alegria was asexually-propagated via tubers as well as micro-propagated. During the 7 years of field evaluation and field observations, there is no report of variants arising from the in-vitro multiplication indicating it is a stable genotype with uniform morphology.

4. Are genetic variants observed or expected during reproduction and multiplication? Yes $\sqrt{\text{No}}$

If yes, state how these variants may be identified, their type and frequency.

Pedigree of Alegria

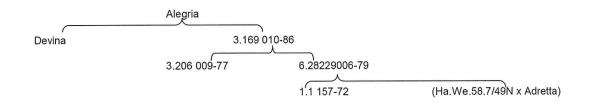


Exhibit B Form

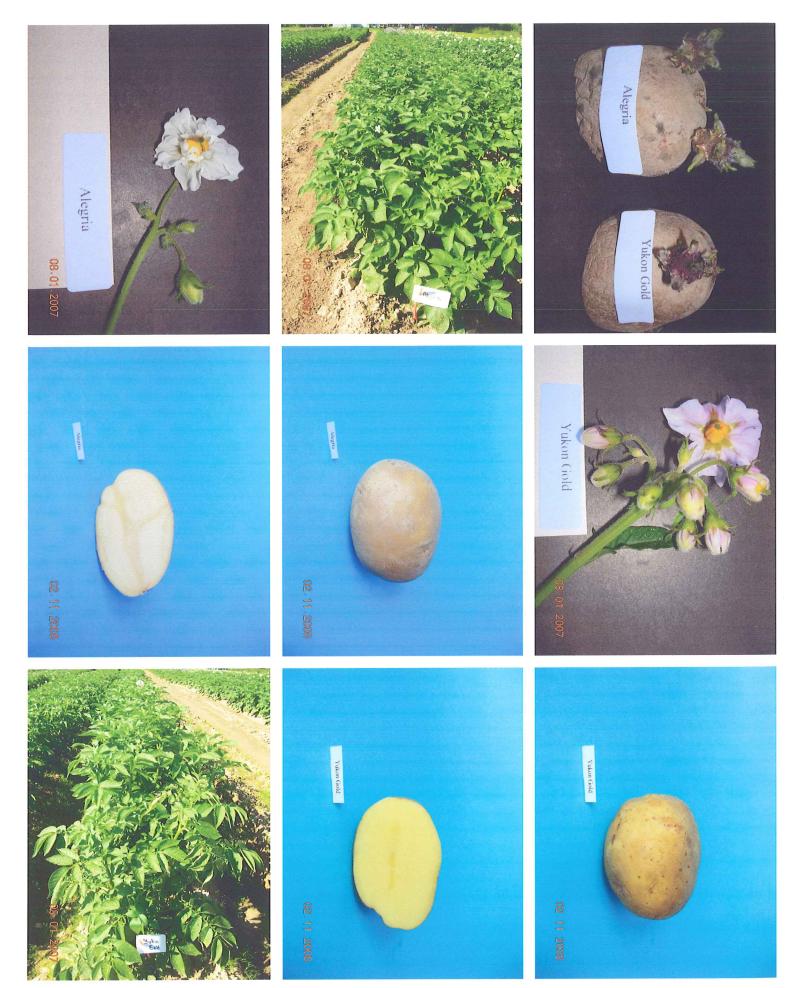
Based on overall morphology, Alegria is most similar to Yukon Gold.

Alegria most clearly differs from Yukon Gold in the following traits:

Name the specific trait, then list the value of that trait for each variety in the comparison. Attach appropriate supporting evidence (see the Guidelines for Presenting Evidence in Support of Variety Distinctness, available from the PVP Office or website).

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	1 st Comparison Variety	Location of Evidence
2. Color traits:	Applicant's New Variety Alegria	1 st Comparison Variety Yukon Gold	
Corolla inner surface color	White (157D)	Purple (76A)	Royal Horticultural Society Color Chart
Secondary skin color	Absent	Red eyes (62A)	Royal Horticultural Society Color Chart
3. Quantitative traits:			
4. Other:			
4. Gulet.			

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



ZZ:TTM 08 34U 800Z

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

Form Approved OMB NO 0581-0055

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.

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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 Potato (Solanum tuberosum L.)

INSTRUCTIONS

The Objective Description Form:

The objective description form lists characteristics to be used as the basis for developing the description of potato varieties. It is designed to guide the applicant in describing a variety in detail so a meaningful comparison with other potato varieties can be accomplished. It is recommended that this form be completed in as much detail as possible to ensure an accurate description. Please fill in the requested data and place the appropriate number that describes the varietal characters typical of this potato variety and the reference varieties in the respective boxes.

Test Guidelines:

Any statistical and trial (field test) data that may be necessary to support the variety description should be attached to this form. Please include for trial data the plot size, number of replications, number of plants, plant spacing, trial locations and growing periods. Trials should normally be conducted at one place, in the region that the variety has been adapted for, with a minimum of one growing period in the United States. All comparative data should be determined from varieties entered in the same trials. The size of the plots should be such that plants or parts of plants may be removed for measuring and counting without prejudice to the observations which must be made at the end of the growing period. As a minimum, each test should include a total of 60 plants which should be divided between two or more replicates. Separate plots for observation and measuring can only be used if they have been subject to similar environmental conditions. To determine color for a plant or plant parts a recognized standard color chart must be used such as the Royal Horticultural Society (RHS) Color Chart or Munsell Color Chart (MCC).

Reference Varieties:

The application variety should be compared to at least one reference variety preferably a set of reference varieties. The reference varieties should be market class standard varieties currently grown in the United States and or the variety (ies) most similar. The following varieties are recommended as market class standards to be used as reference varieties:

Yellow-flesh table-stock	Yukon Gold
Round-white table-stock	Superior
Chip-processing	Atlantic, Snowden, Norchip
Frozen-processing	
Russet table-stock	Russet Burbank, Russet Norkotah, Goldrush
Red table-stock	Red Pontiac, Red Norland, Red Lasoda

If the applicant does not use one of the recommended reference varieties by the PVP office, a complete description of the reference variety should be submitted by the applicant (Exhibit C).

Characteristics:

Light sprout characteristics are supplied in **Figure 1**. The plant type and growth habit characteristics are collected at early first bloom. **Figure 2** is supplied to help visualize the growth habit. For this descriptor, look at the stems rather than the stems and foliage. Plant maturity is measured at natural vine senescence.

Stem characteristics are also collected at early bloom. Stem anthocyanin coloration is divided into two descriptors: Location and intensity. **Figure 3** is supplied to give an example of stem wings.

Leaf characteristics are observed at early first bloom. Fully-developed leaves located on the middle third of the plant should be used. Leaf pubescence refers to general trichomes. Figure 4 is supplied for examples of leaf silhouette. Leaf stipules are shown in Figure 5 for visual definition. Figure 6 is supplied to define leaf characteristics. Figure 7 should be used to describe terminal and primary leaflet shape. Figures 8 and 9 are used to describe the terminal and primary leaflet shape of tip and base, respectively. To measure the total number of primary leaflets pairs, collect 10 fully developed petioles (with leaves attached from each replication) and take the average number of secondary and tertiary leaflets. Glandular trichomes should be described in the Additional Comments and Characteristics (Descriptor 15).

Inflorescence characteristics should be measured at early first bloom. **Figures 10, 11 and 12** are supplied to describe anther and stigma shape, respectively. Corolla, calyx, anther, stigma, and pollen should be observed on newly opened flowers. Berry production should be based on field-grown plants rather than greenhouse plants.

Tuber characteristics should be observed following harvest. **Figures 13 and 14** are available to describe distribution of secondary color and tuber shape, respectively.

Disease and pest reactions should be based upon specific tests or statistical analysis rather than just field observations, rating 1 as Highly Resistance and 9 as Highly Susceptible, please follow the scale on each descriptor. Other diseases or pests reactions not requested can be described if it is felt that it would be helpful to determine novelty of the variety.

Quality characteristics should be described according to the market use.

If the plant is transgenic, this gene insertion(s) should be described.

Chemical identification and any other characteristics can be described if they are helpful in distinguishing the variety.

Legend:

V = Application Variety

R1-R4 = Reference Varieties

* = Both the reference variety (ies) and application variety must be described for characteristics designated with an asterisk.

NAME OF APPLICANT (S) NORIKA Nordring-Kartoffelzucht- und Vermehrungs- GmbH		MPORARY OR EXPER	RIMENTAL DESIGNATI	VARIETY NAME Alegria			
ADDRESS (Street and No. or RD No., City, State, Zip Code Parkweg 4 D-18190 Sanitz OT Groß Lüsewitz Germany	e, and Country)				PVPO NUM	BER 700289	Till bearing and
REFERENCE VARIETIES: Enter the reference	ce variety name i	n the appropriate	box.				
3 (P-1-2000)	Variety 1 (R1)	Reference \	/ariety 2 (R2)	Reference Varie	ty 3 (R3)	Reference Variety 4 (R4)	
Alegria Yukon Go	ld						
PLEASE READ ALL INSTRUCTIONS CAI	REFULLY:						
1. MARKET CHARACTERISTICS:							•
*MARKET CLASS: 1 = Yellow-flesh Tablestock 2 = Reset Tablestock 6 = Other_	ound-white Table	estock 3 = Chip-	processing 4 = 1	Frozen-processing			
V 1 R1 1		R2	R3	R4			
2. LIGHT SPROUT CHARACTERISTICS: (3 *LIGHT SPROUT: GENERAL SHA 1 = Spherical 2 = Ovoid 3 =	PE	Broad cylindrica	5 = Narrow cy	rlindrical 6 = Ot	iher		
V 4 R1 2	?]	R2	R3	R4			
*LIGHT SPROUT BASE: PUBESO 1 = Absent 2 = Weak 3 = N			ery Strong				
V 4 R1 3	I	R2	R3	R4			
*LIGHT SPROUT BASE: ANTHOC 1 = Green 2 = Red-violet 3 =	YANIN COLORA Blue-violet	ATION 4 = Other(descri	be)				
V 2 R1 2	R	12	R3	R4			
*LIGHT SPROUT BASE: INTENSIT 1 = Absent 2 = Weak 3 = N		YANIN COLORA Strong 5 = V	TION (IF PRESEN ery Strong	IT)			
V 3 R1 4	R	22	R3	R4	-		
* LIGHT SPROUT TIP: HABIT 1 = Closed 2 = Intermediate	3 = Open						
V 2 R1 1	R	12	R3	R4			

2. LIGHT SPROUT CHARACTERISTICS: (continued)

LIGHT SPROUT TIP: PUBESCENCE

1 = Absent

2 = Weak

3 = Medium

4 = Strong

5 = Very Strong

3

R1 2 R2

R3

R4

LIGHT SPROUT TIP ANTHOCYANIN COLORATION

1 = Green

2 = Red-violet

3 = Blue-violet

4 = Other(describe)

2

R12 R2

R3

R4

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

2 = Weak

3 = Medium

4 = Strong

5 = Very Strong

2

2

R1

R2

R3

R4

LIGHT SPROUT ROOT INITIALS: FREQUENCY

R1 2

1 = Absent

2 = Some

3 = Abundant

R2

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 (foliage open, stems clearly visible)

2 = Intermediate

3 = Leaf (Foliage closed, stems hardly visible)

3

R11

R2

R3

R4

MATURITY: Days after planting (DAP) at vine senescence



R1

R2

R3

R4

PLANTING DATE:

June 7, 2007

R1 June 7, 2007

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

V 6

6 R1

R2

R3

R4

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).

2

3 R1

R2

R3

R4

4. STEM	CHARA	CIERISTI	CS: N	neasure	at early t	irst biod	om								
	* STEM . 1 = Abse	ANTHOC' ent 3= V	YANIN Veak	5 = Me	RATION: dium 7	= Stron	ıg 9='	Very Stro	ng						
	V	3		R1	5		R2			R3		R4			
	STEM W	/INGS: (S	ee Fig Weak	jure 3) 5 = Me	edium 7	7 = Stro	ng 9=	Very Str	ong						
	V	3		R1	5		R2			R3		R4			
5. LEAF	CHARAC	CTERISTIC	CS:												
	LEAF C	OLOR: (Cowing-gree	Observ en 2	e fully d = Olive-	eveloped green	leaves 3 = Me	<i>located</i> dium Gr	<i>on middl</i> een 4	e 1/3 o = Dark	<i>f plant)</i> Green 5 = Gre	ey-green	6 = Other			
	V	3		R1	1		R2			R3		R4			
	LEAF C	OLOR CH e fully dev	ART \	VALUE:	Royal F	lorticult	ure Soci le 1/3 of	ety Color plant and	Chart circle	or Munsell Color the appropriate	Chart	art)			
	V	146A		R1	147A		R2			R3		R4			
	LEAF P	UBESCEN	NCE D		: = Mediun	n 4	= Thick	5 = H	eavy						
	V	3		R1	3		R2			R3		R4			
	LEAF P	UBESCEN	NCE L Short		: Medium	4 = l	ong	5 = Very	Long						
	V	2		R1	2		R2			R3		R4			
	(Note De	escriptor #	15 car	n be use	d to desc	ribe the	e type an	nd length	of the	glandular trichom	es obse	rved.)			
	* LEAF 1 = Clos	SILHOUE ed 3 =	TTE: Mediu		gure 4) 5 = Open										
	V	1		R1	5		R2			R3		R4			
	PETIOL 1 = Abse	ES ANTH	OCYA : Weak		LORATION Medium	ON: 7 =	Strong	9 = V	ery St	rong					
	V	1		R1	1		R2			R3		R4			
	LEAF S	TIPULES ent 3 =	SIZE : Smal		ure 5) = Medium	n 7=	= Large								
	V	5		R1	5		R2			R3		R4			
	TERMIN	IAL LEAF	LET S	HAPE (See Figu n Ovate	res 6 aı 3 = Br	nd 7) oadly Ov	vate 4	= Lanc	eolate 5 = Ellip	tical 6	= Obovate 7 =	Oblong	8 = Other	
		2	_	R1			R2			R3		R4	7		
			L			J			, 1		J		_		

Exhibit C (Potato) 5. LEAF CHARACTERISTICS: (continued) TERMINAL LEAFLET TIP SHAPE: (See Figures 6 and 8) 4 = Obtuse 5 = Other 2 = Cuspidate 3 = Acuminate R4 3 R11 & 3 R2 R3 * TERMINAL LEAFLET BASE SHAPE: (See Figure 9) 5 = Truncate 6 = Lobed 7 = Other 2 = Acute 3 = Obtuse 4 = Cordate 1 = Cuneate R3 R2 R4 4 R1 3 **TERMINAL LEAFLET MARGIN WAVINESS:** 3 = Weak 4 = Medium 5 = Strong 2 = Slight 1 = Absent R3 R4 R1 3 R2 1 NUMBER OF PRIMARY LEAFLET PAIRS: (See Figure 6) AVERAGE: R4 5.5 R3 R16 R2 RANGE: 5 to 6 6 to 6 R4 R3 R2 R1 PRIMARY LEAFLET TIP SHAPE: (See Figures 6 and 8) 1 = Acute 2 = Cuspidate 3 = Acuminate 4 = Obtuse $5 = Other_$ R4 R2 R3 R11 & 3 PRIMARY LEAFLET SIZE: 1 = Very Small 2 = Small 3 = Medium 4 = Large 5 = Very Large R4 3 R2 R3 R1 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 ___ R2 R3 R4 R1 1 & 4 PRIMARY LEAFLET BASE SHAPE: (See Figures 6 and 9) 2 = Acute 3 = Obtuse 4 = Cordate 5 = Truncate 6 = Lobed 7 = Other_ 1 = Cuneate R1 R2 R3R4 3 NUMBER OF SECONDARY AND TERTIARY LEAFLET PAIRS: (See Figure 6) AVERAGE: R2 R3 R4 7.1 4.3 R1

RANGE:

R1 2 to 6 R4 to 2 to 7 R2 R3 to to

								Exh
CHARAC	CTERISTICS: (cc	ontinued)						
NUMBEI	R OF INFLORES	SCENCE/PLAN	NT:					
AVERAC V		R1 0.3	R2		R3	R4		
RANGE:	:							
v 0	to 1	R1 0 to	1	R2	to	R3 to	R4	to
NUMBEI	R OF FLORETS	/INFLORESCE	ENCE:					
AVERAC	GE:							
V	1.9	R1 3.2	R2		R3	R4		
RANGE:	<u> </u>							
v 1	to 5	R ₁ 0 to	8	R2	to	R3 to	R4	to
V	157D	R1	appropriate colo	R2		R3	R4	
			OR CHART VALU e appropriate colo		lorticulture Society	Color Chart or Muns	sell Color Chart (Meas	ure predon
V	157C	R1	76C	R2		R3	R4	
1 = Whit 11 = Pur Pink-Whi	te 2 = Red-viol ple-violet 13 = ite 1:3 19 = P dViolet-White Ha	et 3 = Blue-v : Violet-White 1 ink-White 3:1	iolet 4 = Cream I:1 14 = Violet	5 = Red- -White 1:3 : Halo 21 :	purple 6 = Blue 15 = Violet-White = RedViolet-White	7 = Pink 8 = Pink 3:1 16 = Violet-W 1:1 22 = RedViolet	bi-color please use th -white 9 = Purple /hite Halo 17 = Pink- -White 1:3 23 = Red 2 3:1 28 = BlueViole	10 = Violet -White 1:1 Violet-Whit
V	1	R1 9	R2		R3	R4		
000011	LA SHAPE: (Se	E: 40\						
	rotate 2 = Ro		tagonal 4 = Se	mi-stellate	5 = Stellate			

6. INFLORESCENCE CHARACTERISTICS:

CALV	CANTHO	CVANIN	COL	ORA'	TION

1 = Absent 3 = Weak 5 = Medium

R1

R2

7 = Strong

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)

9 = Very strong

14A

17C

R2

R3

R4

	ANTHER SHAPE: (See Figure 11) 1 = Broad cone 2 = Narrow cone	3 = Pear-shaped cone 4 = Loose 5 = Othe	er
	V 4 R1 1	R2 R3	R4
6. INFLO	ORESCENCE CHARACTERISTICS: (conti	nued)	
	POLLEN PRODUCTION: 1 = None 3 = Some 5 = Abundant		
	V 3 R1 3	R2 R3	R4
	STIGMA SHAPE: (See Figure 12) 1 = Capitate 2 = Clavate 3 Bi-lobe	d	
	V 1 R1 1	R2 R3	R4
	STIGMA COLOR CHART VALUE: Roya	al Horticulture Society Color Chart or Munsel Col	or Chart (Circle the appropriate color chart)
	V 146A R1 1	47B R2	R3 R4
	BERRY PRODUCTION: (Under field conditions of the second sec		
	V 3 R1 3	R2 R3	R4
7. TUBE	* PREDOMINANT SKIN COLOR: 1 = White	12 = Other	$= \text{Pink} \qquad 8 = \text{Red} \qquad 9 = \text{Purplish-red}$ $\boxed{R4}$ or Munsell Color Chart (Circle the appropriate color chart)
	V 161A R1 1	64C R2	R3 R4
	SECONDARY SKIN COLOR: 1 = Absent 2 = Present (please des		R3 R4
	V 1 R1 2	R2	R3 R4
	SECONDARY SKIN COLOR CHART VA	LUE: Royal Horticulture Society Color Chart or	Munsell Color Chart (Circle the appropriate color)
	V R1 6	22A R2	R3 R4
	SECONDARY SKIN COLOR DISTRIBUT 1 = Eyes 2 = Eyebrows 3 = Splash		Stippled 7 = Other
	V R1 1	R2 R3	R4
	SKIN TEXTURE: 1 = Smooth 2 = Rough (flaky) 3 =	Netled 4 = Russetted 5 = Heavily russett	ed 6 = Other
	V 2 D1 1	P2 P2	D/I

7. TUBER CHARACTERISTICS: (continued) * TUBER SHAPE: (See Figure 14) 3 = Oval 4 = Oblong 5 = Long6 = Other 1 = Compressed 2 = Round R4 **R3** R2 3 R12 **TUBER THICKNESS:** 5 = Other 2 = Medium thick 3 = Slightly flattened 4 = Flattened 1 = Round R3 R4 R2 2 R12 TUBER LENGTH (mm): AVERAGE: R4 84.9 R3 R1 78.7 R2 RANGE: R2 R3 R4 to R169 to 88 to 75 to 92 to STANDARD DEVIATION: R4 R3 R2 5.8 R16.9 AVERAGE WEIGHT OF SAMPLE TAKEN: R4 R3 R1 187.4g/tuber R2 186g/tuber TUBER WIDTH (mm) AVERAGE: R2 R3 R4 67.2 R1 69.5 RANGE: 60 TO 72 64 TO 75 R3 R4 R1 R2 STANDARD DEVIATION: R4 R3 4.3 R2 4 R1 V

AVERAGE WEIGHT OF SAMPLE TAKEN (g):

186g/tuber

R1

187.4g/tuber

R2

R4

R3

7. TUBER CHARACTERISTICS: (continued)

TUBER THICKNESS (mm):

AVERAGE:



RANGE:





R3

R4

STANDARD DEVIATION:



R1 5.7

R2

R3

R4

AVERAGE WEIGHT OF SAMPLE TAKEN (g):









TUBER EYE DEPTH:

1 = Protruding

3 = Shallow

5 = Intermediate

7 = Deep

9 = Very deep

V 3

R1 3

R2

R3

R4

TUBER LATERAL EYES:

1 = Protruding

3 = Shallow

5 = Intermediate

7 = Deep

9 = Very deep

V 3

R1 3

R2

R3

R4

NUMBER EYE/TUBER:

AVERAGE:





R4

RANGE:

V	8 to 12

R1 6 to 11

R2

R3

R4

DISTRIBUTION OF TUBER EYES:

1 = Predominantly apical

2 = Evenly distributed

V 2

R1 2

R2

R3

R4

PROMINENCE OF TUBER EYEBROWS:

1= Absent

2 = Slight prominence

3 = Medium prominence

4 = Very prominent

5 = Other _____

V 2

R1 2

R2

R3

R4

7	TUDED	CHADI	OTEDICE	TICC.	(continued)
-	HUBER	CHARA	CIERIS	103.	(Continued)

PREDOMINANT TUBER FLESH 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
V 3 R1 3 R2 R3 R4
PRIMARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)
V 18A R1 12C R2 R3 R4
SECONDARY TUBER FLESH COLOR:
1 = Absent 2 = Present, please describe:
V 1 R1 1 R2 R3 R4
SECONDARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)
V R1 R2 R3 R4
NUMBER OF TUBERS/PLANT: 1 = Low (<8)
V 2 R1 1 R2 R3 R4

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) R3 R4 0 R1 0 R2 **EARLY BLIGHT: (Alternaria)** R1 R2 R3 R4 0 0 SOFT ROT (Erwinia) R3 R4 R2 R10 0 **COMMON SCAB (Streptomyces) R3** R2 R4 R1 POWDERY SCAB (Spongospora) R3 R4 R1 0 R2 0 **DRY ROT (Fusarium)** R3 R4 R1 0 R2 POTATO LEAF ROLL VIRUS (PLRV)

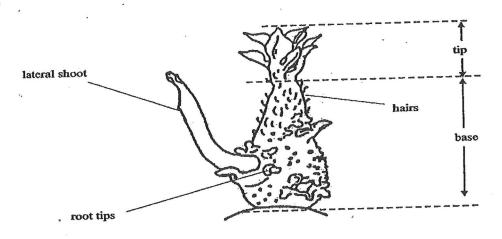
V	2	R1 5	R2	R3	R4
V		ICI 💆	1(2	ICS	IX.

8. DISEASES CHARACTERISTICS: (continued) POTATO VIRUS X (PVX) R1 0 R2 R3 R4 0 POTATO VIRUS Y (PVY) R3 R4 8 R1 POTATO VIRUS M (PVM) R2 R3 R4 0 0 R1**POTATO VIRUS A (PVA)** 0 R3 R4 0 R1 R2 **GOLDEN NEMATODE (Globodera)** R3 R4 Ro1,4 R10 R2 **ROOT - KNOT NEMATODE (Meloidogyne)** R3 R4 R10 OTHER DISEASE R1 R3 R2 R4 PHYSIOLOGICAL DISORDER 2 = Tuber cracking 4 = Hollow heart 5 = Internal necrosis 1 = Malformed shape 3 = Feathering 6 = Blackheart 7 = Internal sprouting 8 = Other R2 R3 R4 R1 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 COLORADO POTATO BEETLE (CPB) (Leptinotarsa) R3 R2 R4 0 R1 0 **GREEN PEACH APHID (Myzus)** R2 R3 0 R4 R1 0 OTHER: R2 R3 R1 R4 OTHER: R2 R3 R4 R1

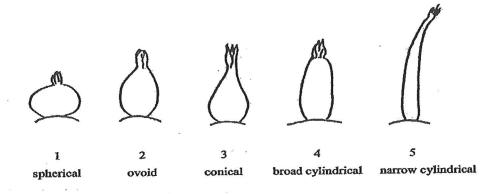
40 CENI	ETRAITS:				
	IF YES, describe the gene(s) introduced or attach information:				
11. QUAL	LITY CHARACTERISTICS:				
	CHIEF MARKET:				
	SPECIFIC GRAVITY (wt. air/wt. air – wt. water)				
	1 = <1.060				
	V 5 R1 4 R2 R3 R4				
	TOTAL GLYCOALKALOID CONTENT (mg./100 g. fresh tuber)				
	V 7.9 R1 R2 R3 R4				
OTUED O	UALITY CHARACTERISTICS: Describe any other quality characteristics that may aid in identification, (e.g., chip-processing, french fry processing,				
baking, bo	ciling, after-cooking darkening). Please attach data and corresponding protocol.				
12. CHE	MICAL IDENTIFICATION:				
	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. FING	ER PRINTING MARKERS:				
	ISOZYMES 1 = YES 2 = NO 2				
	IF YES, attach information				
14. DNA PROFILE: 1 = YES 2 = NO 2					
	IF YES, attach information				
15. ADDI	DITIONAL COMMENTS AND CHARACTERISTICS:				
Include ar	ny additional descriptors that would be useful in distringuishing the candidate variety.				

Figure 1: Light sprout

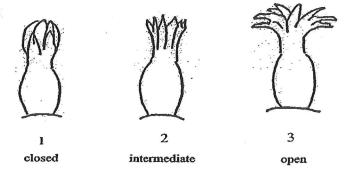
Light sprout dissection



Light sprout shape



Light sprout tip habit



The characteristic should be observed after about 10 weeks to obtain a good differentiation in the collection.

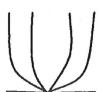
Figure 2: Growth Habit



Erect



Semi Erect



Spreading

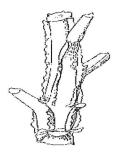
Figure 3: Stem Wings



Weak



Medium



Strong

Figure 4: Leaf Sillhouette



Closed

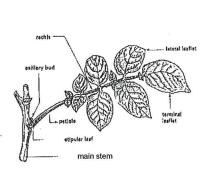


Medium

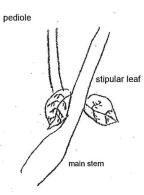


Open

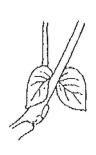
Figure 5: Leaf Stipules



General structures



Small stipular leaf



Medium stipular leaf



Large stipular leaf

Figure 6: Leaf Dissection

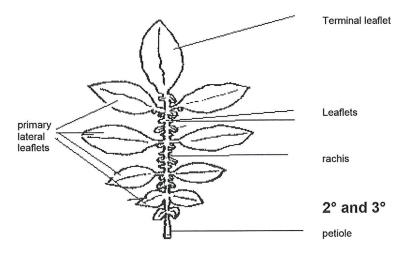


Figure 7: Terminal Leaflet Shape/Primary Leaflet Shape

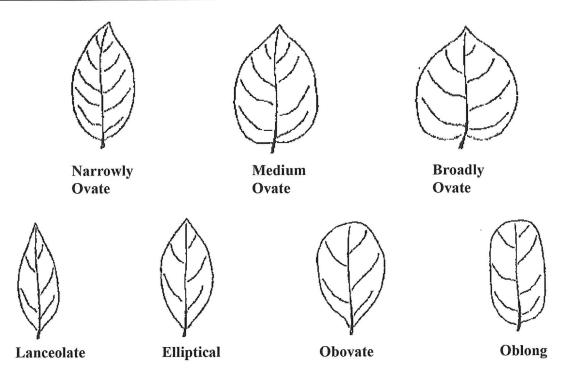


Figure 8: Terminal Leaflet Shape of Tip/Primary Leaflet Shape of Tip

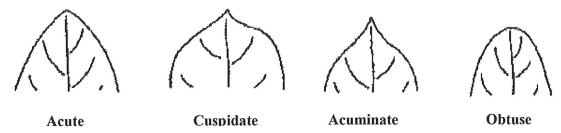


Figure 9: Terminal Leaflet Shape of Base/Primary Leafelet Shape of Base

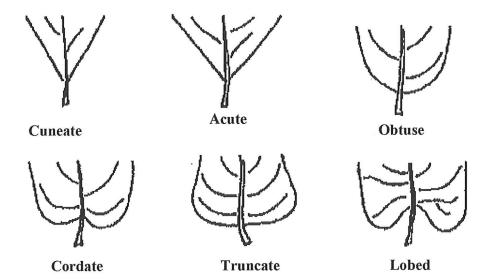


Figure 10: Corolla Shape

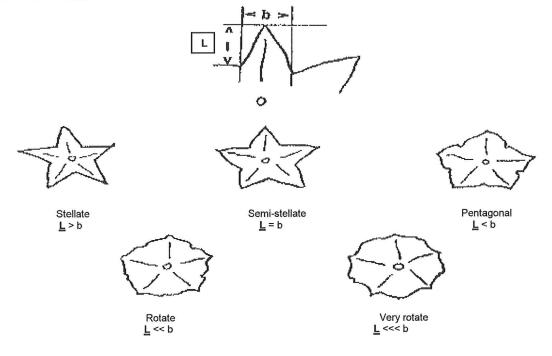


Figure 11: Anther Shape



Broad cone



Narrow cone



Pear-shape cone



Loose



Capitate

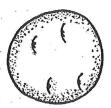


Clavate



Bi-lobed

Figure 13: Distribution of Secondary Skin Tuber Color



Eyes



Eyebrows



Splashed



Scattered



Spectacled



Stippled

Figure 14: Tuber Shape



Compressed



Round



Oval



Oblong



Long

References:

Huaman, Z. 1986. Systematic botany and morphology of the potato. Technical information Bulletin 6. International Potato Center, Lima, Peru.

Huaman, Z., Williams, J.T., Salhuana, W. and Vincent, L. Descriptors for the cultivated potato and the maintenance and distribution of germplasm collections. 1977. International Board for Plant Genetic Resources. Rome, Italy.

Potato (*Solanum tuberosum* L.) Guidelines for the conduct of tests for distinctness, uniformity and stability. International union for the protection of new varieties of plants (UPOV). 2004-03-31.

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		W 123 NO
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Germany		ائنا اسا
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by individual(s), is YES YES	NO If no, give name of coun	
b. If the original rights to variety were owned by a company(ies	Germany NO If no, give name of count Germany i), is (are) the original owner(s) a U.S. bath If no, give name of count Germany	ased company?
b. If the original rights to variety were owned by a company(ies	Germany NO If no, give name of count Germany i), is (are) the original owner(s) a U.S. bath If no, give name of count Germany	ised company?
b. If the original rights to variety were owned by a company(ies YES	Germany NO If no, give name of count Germany i), is (are) the original owner(s) a U.S. bath If no, give name of count Germany	ased company?
b. If the original rights to variety were owned by a company(ies	Germany i), is (are) the original owner(s) a U.S. bath if no, give name of count Germany iiinal breeder to current owner. Use the research	ased company?
b. If the original rights to variety were owned by a company(ies YES) 11. Additional explanation on ownership (Trace ownership from original explanation on ownership from original explanation on ownership (Trace ownership from original explanation on ownership from original explanation on ownership (Trace ownership from original explanation) (Trace ownership from original explanation of the own	Germany i), is (are) the original owner(s) a U.S. bath of the original owner(s) a U.S. bath of the original owner of count of the original owner. Use the original breeder to current owner. Use the original breeder to current owner. Use the original owner owner.	reverse for extra space if needed):
b. If the original rights to variety were owned by a company(ies YES) 11. Additional explanation on ownership (Trace ownership from original explanation on ownership (Trace ownership from original explanation). If the rights to the variety are owned by the original breeder, that national of a country which affords similar protection to nationals	So, is (are) the original owner(s) a U.S. bath for the original owner(s) a U.S. bath for the original owner of count of the U.S. for the same genus and specific opposed the original breeder(s), the company of the U.S. for the same genus and specific opposed the original breeder(s), the company of the U.S. for the same genus and specific opposed the original breeder(s), the company of the U.S. for the same genus and specific or the	ased company? In of a UPOV member country, or cies. In y must be U.S. based, owned by
b. If the original rights to variety were owned by a company(ies YES) 11. Additional explanation on ownership (Trace ownership from original explanation on ownership (Trace ownership from original explanation on ownership (Trace ownership from original explanation or ownership from original explanation of a country which affords similar protection to nationals 2. If the rights to the variety are owned by the company which employed in the ownership from original original original original explanation or owned by the company which employed in the ownership from original ori	Germany i), is (are) the original owner(s) a U.S. bath if no, give name of count Germany in NO If no, give name of count Germany in all breeder to current owner. Use the respective of the U.S. for the same genus and spectory of the Original breeder(s), the company of the original breeder(s) a U.S. bath is the original breeder(s), the company of the original breeder(s) and the original breeder(s).	ased company? Try Teverse for extra space if needed): I of a UPOV member country, or cies. It is must be U.S. based, owned by to nationals of the U.S. for the same

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Signature

20.04.2007

Date

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