

No.

9600092



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## SAKA-RAGIS Pflanzenzucht GbR

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 EXPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE 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.)

POTATO

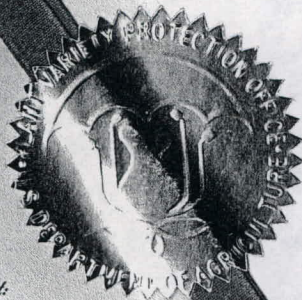
'Satina'

*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 thirtieth day of January, in the year of our Lord two thousand one.*

Attest:

Acting Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Secretary of Agriculture



9600092

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

FORM APPROVED - OMB NO. 0581-003

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

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 APPLICANT(S) (as it is to appear on the Certificate) SAKA-RAGIS Pflanzenzucht GbR		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 2420/85	3. VARIETY NAME SATINA
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Kielortallee 9 D-20144 Hamburg Federal Republic of Germany		5. TELEPHONE (include area code) ++(49)-40-446167	FOR OFFICIAL USE ONLY PVPO NUMBER 9600092 FILING AND EXAMINATION FEE \$ 2450.00 DATE Dec. 15, 1995 CERTIFICATION FEE \$ 320.00 DATE 10/23/00
7. GENUS AND SPECIES NAME Solanum tuberosum L.		6. FAX (include area code) ++(49)-40-417716	
8. FAMILY NAME (Botanical) Solanacea		9. CROP KIND NAME (Common name) potato	
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name) partnership			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION no		12. DATE OF INCORPORATION -	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Betaseed Inc. <del>Joe Dahmer</del> MR. A.O. HINDLE P.O. Box 195 1788 MARSCHALL ROAD Shahopee, MN 55379/USA P.O. BOX 195 SHAHOOPEE, MN 55379-0195 06/15/00 JMP PER LETTER			14. TELEPHONE (include area code) (612)-445-8090
			15. FAX (include area code) (612)-496-0205
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act?) <input checked="" type="checkbox"/> YES If "yes," answer items 18 and 19 below <input checked="" type="checkbox"/> NO If "no," go to item 20 RWS 12-26-95			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES If "yes," give names of countries and dates <input type="checkbox"/> NO offered for sale first: Germany spring 1994			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT (Owner(s)) SAKA-RAGIS PFLANZENZUCHT GBR Wolfgang Philipp		SIGNATURE OF APPLICANT (Owner(s))	
NAME (Please print or type) Wolfgang Philipp		NAME (Please print or type)	
CAPACITY OR TITLE Managing Director		CAPACITY OR TITLE	
DATE 7 DEC 95 07. 12. 1995		DATE	

### Origin and Breeding History of the variety S A T I N A

Applicant: SAKA-RAGIS Pflanzenzucht GbR  
Kielortallee 9  
D-20144 Hamburg  
Federal Republic of Germany

Species: potato / Solanum tuberosum L.

variety: SATINA

PVPO number: 9600092

#### 5. Number of generations over which stability and uniformity have been observed:

Stability and uniformity of potato variety SATINA have been officially proved at the Bundessortenamt, Hannover, annually proved since the first DUS trial in 1990 (until today, October 1997, eight generations)

#### 6. Breeding history:

			SATINA			
		Puntila	x	99/73		
Aula	x	1929/67		Nausica	x	Gloria
6747/60	x	Clivia	? x ?	Thyra x Hydra		Amex x Feldeslohn

#### 8. Off-types and variants:

The variety SATINA is stable and uniform without showing any variants and off-types.

#### 9. Selection criteria:

ware potato variety  
high yield, with medium tuber size, suitable for packing, uniform calibration  
cooking quality - homogen flesh colour, good taste  
- without after cooking darkening  
tolerant against bruising, damage, etc.  
good storing ability  
resistances: - nematodes, race Ro1  
- potato wart disease, race 1  
high field tolerance: - virus diseases, PLRV, PVY, PVA  
- Phytophthora infestans, Alternaria solani, Streptomyces scabies, Rhizoctonia solani

### Statement of Distinctness

#### 13. The variety most similar to SATINA

The Bundessortenamt found the potato variety BEROLINA to be most similar to SATINA. SATINA is distinct from BEROLINA by:

	BEROLINA	SATINA
<b>Leaf: intensity of green colour:</b>	medium to dark (6)	light to medium (4)
<b>Leaflet: glossiness of the upperside</b>	medium (5)	dull (3)

#### 17. Reasonable evidence to support claim of distinctness for the variety SATINA

The German Bundessortenamt uses reference varieties for the various morphological characters of a potato variety. Quantitative characters such as plant size, maturity etc. are given as numerical marks following the „UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.“

The variety SATINA was proved to be distinct from all other potato varieties in Germany and all other member states of UPOV on 01.03.1993. The Bundessortenamt registered and protected SATINA under reference number K 2885. The DUS results are available at:

Bundessortenamt  
Postfach 61 04 40  
30604 Hannover

Telephone: ++(49)-511-95 66 5  
Fax: ++(49) 511-56 33 62

**Objective Description of Variety**

**SATINA**

**North Tilley, N.B.  
1999**

Global Agri Services Inc.

**PBR & PVP TRIAL 1999**  
**NORTH TILLEY, NEW BRUNSWICK**

**OBJECTIVE**

The objective of this experiment is to prepare the potato objective description for the examination of the Plant Breeder's Rights and Plant Variety Protection.

**MATERIALS & METHODS**

**Varieties:**

There was 22 varieties in the trial. The varieties Chieftain, Kennebec, Red Pontiac, Dali, Calwhite, Yukon Gold, Merlin, Morning Gold, Russet Burbank, Shepody, Bintje and Symfonia were used as standard varieties.

**Design:**

A randomized complete block with 22 varieties and four replicates. All entries were planted in single-row plots and each entry had one plot per replicate. A plot was 18' long (5.5 m). Spacing between adjacent plots was 36" (91cm). Spacing between adjacent hills within plot was 12" (30.5 cm).

**Planting:**

The trial was planted on May 19, 1999

**Fertility:**

1500 lbs/A 10-10-20 ( McCain formulation Z)

**Spacing:**

All varieties were planted at 12" (30.5cm).

FIGURES IN RED TRANSFERRED FROM  
ORIGINAL EXHIBITC 06/15/00 JMP

**Harvest:**

The field was topkill September 10, 1999 and harvested September 26, 1999.  
Yield data was collected from replication number four.

**RAINFALL**

Month of May 1.9" (48mm) -representing the last week of the month only-

Month of June 2.4" (60mm)

Month of July 2.4" (60mm)

Month of August 3.7" (90.7mm)

Month of September 8.4" (213 mm)

**GENERAL OBSERVATIONS**

The environmental conditions at planting of the trial were very dry at the start but in the latter part of the planting we received substantial amount of rain, causing some severe seed peace decay in some varieties. The growing season is summarize as very dry and hot. The rain arrived at harvesting time causing some delay.

**SECTIONS COMPLETED BY GLOBAL AGRI SERVICES INC.**

1. Market Characteristics
2. Plant Characteristics
3. Stem Characteristics
4. Leaf Characteristics
5. Inflorescence Characteristics
6. Tuber Characteristics
7. Sprout Characteristics



**OBJECTIVE DESCRIPTION OF VARIETY**

POTATO (*Solanum tuberosum L.*)

NAME OF APPLICANT(S) <b>Saka Ragis Pflanzenzucht GbR</b>	FOR OFFICIAL USE ONLY PVPO NUMBER
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ADDRESS <b>Kielortalle 9 D-20144 Hamburg</b>	VARIETY NAME <b>Satina</b>
	TEMPORARY OR EXPERIMENTAL DESIGNATION

REFERENCE VARIETY 1 (R1) Morning Gold	REFERENCE VARIETY 2 (R2) Yukon Gold
--	--

1. MARKET CHARACTERISTICS:  
 MARKET CLASS:  
 1 = Yellow-flesh tablestock; 2 = Round-white tablestock; 3 = Chip-processing; 4 = Frozen-processing  
 5 = Russet tablestock; 6 = Other \_\_\_\_\_

VARIETY	R1	R2
1	1	1

2. PLANT CHARACTERISTICS:  
 GROWTH HABIT:  
 1 = Erect (>45° with ground); 5 = Semi-erect (30-45° with ground); 7 = Spreading.

VARIETY	R1	R2
5	6	1

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

VARIETY	R1	R2
2	3	1

MATURITY: Days after planting (DAP) at vine senescence.

VARIETY	R1	R2

PLANTING DATE:

VARIETY	R1	R2
May 19, 1999	May 19, 1999	May 19, 1999

REGION/AREA:

VARIETY	R1	R2
North Tilley, N.B.	North Tilley, N.B.	North Tilley, N.B.

## 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).

VARIETY	R1	R2
3		

## 3. STEM CHARACTERISTICS: Measure at early first bloom

## \* STEM ANTHOCYANIN COLORATION:

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

VARIETY	R1	R2
3	4	4-5

## STEM WINGS

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

VARIETY	R1	R2
7	8	5

## 4. LEAF CHARACTERISTICS:

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

1 = Yellowish-green; 2 = Olive-green; 3 = Medium green; 4 = Dark green; 5 = Grey-green; 6 = other

VARIETY	R1	R2
3	4	1

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

Royal Horticulture Society Color Chart

VARIETY	R1	R2
146A	137A	146A

## LEAF PUBESCENCE DENSITY:

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

VARIETY	R1	R2
3	2	3

## LEAF PUBESCENCE LENGTH:

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

VARIETY	R1	R2
2	2	2

## \* LEAF SILHOUETTE

1 = Closed; 3 = Medium; 5 = Open

VARIETY	R1	R2
3	3-5	5

## PETIOLES ANTHOCYANIN COLORATION:

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

VARIETY	R1	R2
1	3	1-2

## LEAF STIPULES SIZE

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

VARIETY	R1	R2
5	5-6	6-7

## TERMINAL LEAFLET SHAPE:

1 = Narrowly ovate; 2 = Medium ovate; 3 = Broadly ovate; 4 = Lanceolate; 5 = Elliptical;  
6 = Obovate; 7 = Oblong; 8 = other

VARIETY	R1	R2
2	2	1

## TERMINAL LEAFLET TIP SHAPE:

1 = Acute; 2 = Cuspidate; 3 = Acuminate; 4 = Obtuse; 5 = other

VARIETY	R1	R2
3	3	3

## \* TERMINAL LEAFLET BASE SHAPE:

1 = Cuneate; 2 = Acute; 3 = Obtuse; 4 = Cordate; 5 = Truncate; 6 = Lobed; 7 = Other

VARIETY	R1	R2
4	4	2-3

## \* TERMINAL LEAFLET MARGIN WAVINESS:

1 = Absent; 2 = Slight; 3 = Weak; 4 = Medium; 5 = Strong

VARIETY	R1	R2
4	3	3

## NUMBER OF PRIMARY LEAFLET PAIRS:

## AVERAGE:

VARIETY	R1	R2
6.0	5.0	6

## RANGE:

VARIETY	R1	R2
6-6	5-5	6

## PRIMARY LEAFLET TIP SHAPE:

1 = Acute; 2 = Cuspidate; 3 = Acuminate; 4 = Obtuse; 5 = Other

VARIETY	R1	R2
1	1-3	1

## \* PRIMARY LEAFLET SIZE:

1 = Very Small; 2 = Small; 3 = Medium; 4 = Large; 5 = Very Large

VARIETY	R1	R2
2	2-3	2

## PRIMARY LEAFLET SHAPE:

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

VARIETY	R1	R2
1	1	1

## PRIMARY LEAFLET BASE SHAPE:

1 = Cuneate; 2 = Acute; 3 = Obtuse; 4 = Cordate; 5 = Truncate; 6 = Lobed; 7 = Other

VARIETY	R1	R2
4	3-4	3

## NUMBER OF SECONDARY AND TERTIARY LEAFLET PAIRS:

## AVERAGE:

VARIETY	R1	R2
11.2	16.0	17.7

## RANGE:

VARIETY	R1	R2
8-17	11-18	16-21

## 5. INFLORESCENCE CHARACTERISTICS:

NUMBER OF INFLORESCENCE / PLANT  
AVERAGE

VARIETY	R1	R2
4.2	3.7	2.6

## RANGE:

VARIETY	R1	R2
3-6	3-4	2-3

## NUMBER OF FLORETS / INFLORESCENCE:

## AVERAGE:

VARIETY	R1	R2
13.4	14.6	4.9

## RANGE:

VARIETY	R1	R2
8-20	12-18	3-6

\* COROLLA INNER SURFACE CHART VALUE: Measure predominant color of newly open flower RHSCC.

VARIETY	R1	R2
157A	157C	85B

\* COROLLA OUTER SURFACE COLOR: RHSCC

VARIETY	R1	R2
157A	155B	76A white tips

COROLLA SHAPE:

1 = Very rotate; 2 = Rotate; 3 = Pentagonal; 4 = Semi-stellate; 5 = Stellate

VARIETY	R1	R2
3	3	3

CALYX ANTHOCYANIN COLORATION:

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

VARIETY	R1	R2
1	3	3

ANTHER COLOR: Measure when newly opened flower is fully expanded RHSCC

VARIETY	R1	R2
12A	13A	14A

ANTHER SHAPE:

1 = Broad cone; 2 = Narrow cone; 3 = Pear shape cone; 4 = Loose; 5 = Other

VARIETY	R1	R2
2	2	1

POLLEN PRODUCTION:

1 = None; 3 = Some; 5 = Abundant

VARIETY	R1	R2

STIGMA SHAPE:

1 = Capitate; 2 = Clavate; 3 = Bi-lobed

VARIETY	R1	R2
1	1	1

STIGMA COLOR: RHSCC

VARIETY	R1	R2
147A	148A	138A

BERRY PRODUCTION: UNDER FIELD CONDITIONS:

1 = None; 3 = low; 5 = Moderate; 7 = Heavy; 9 = Very heavy

VARIETY	R1	R2

## 6. TUBER CHARACTERISTICS:

## \* 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

VARIETY	R1	R2
4	3	2

## RHSCC:

VARIETY	R1	R2
162B	161A	161A

## SECONDARY SKIN COLOR:

1 = Absent; 2 = Present, please describe

VARIETY	R1	R2
1	1	2

## RHSCC:

VARIETY	R1	R2
-	-	58C

## SECONDARY SKIN COLOR DISTRIBUTION:

1 = Eyes; 2 = Eyebrows; 3 = Splashed; 4 = Scattered; 5 = Spectacled; 6 = Stippled; 7 = Other

VARIETY	R1	R2
-	-	1

## SKIN TEXTURE:

1 = Smooth; 2 = Rough (flaky); 3 = Netted; 4 = Russetted; 5 = Heavily russetted; 6 = Other

VARIETY	R1	R2
2	1	1

## \* TUBER SHAPE:

1 = Compressed; 2 = Round; 3 = Oval; 4 = Oblong; 5 = Long; 6 = Other

VARIETY	R1	R2
2	2	2

TUBER THICKNESS:

1 = Round; 2 = Medium thick; 3 = Slightly flatted; 4 = Flatted; 5 = Other

VARIETY	R1	R2
2	3	2

TUBER LENGTH (mm):

AVERAGE:

VARIETY	R1	R2
73.1	80.3	80.7

RANGE:

VARIETY	R1	R2
65-84	61-98	62-95

STANDARD DEVIATION:

VARIETY	R1	R2
4.2	10.5	9.5

AVERAGE WEIGHT OF SAMPLE TAKEN:

VARIETY	R1	R2
170.3	227.3	231.0

TUBER WIDTH (mm):

AVERAGE:

VARIETY	R1	R2
70.6	75.0	75.7

RANGE:

VARIETY	R1	R2
63-77	64-85	58-87

STANDARD DEVIATION:

VARIETY	R1	R2
3.7	6.5	7.2

AVERAGE WEIGHT OF SAMPLE TAKEN:

VARIETY	R1	R2
170.3	227.3	231.0

TUBER THICKNESS (mm):

AVERAGE:

VARIETY	R1	R2
54.3	58.2	61.6

RANGE:

VARIETY	R1	R2
50-59	53-65	52-78

## STANDARD DEVIATION:

VARIETY	R1	R2
3.2	3.3	6.6

## AVERAGE WEIGHT OF SAMPLE TAKEN:

VARIETY	R1	R2
170.3	227.3	231.0

## TUBER EYE DEPTH:

1 = Protruding; 2 = Shallow; 3 = Intermediate; 4 = Deep; 5 = Very Deep

VARIETY	R1	R2
3	3	2

## TUBER LATERAL EYES:

1 = Protruding; 2 = Shallow; 3 = Intermediate; 4 = Deep; 5 Very deep

VARIETY	R1	R2
3	3	2

## NUMBER EYE / TUBER:

## AVERAGE:

VARIETY	R1	R2
7.2	7.6	8.6

## RANGE:

VARIETY	R1	R2
5-8	5-10	6-10

## DISTRIBUTION OF TUBER EYES:

1 = Predominantly apical; 2 = Evenly distributed

VARIETY	R1	R2
1	2	2

## PROMINENCE OF TUBER EYEBROWS:

1 = Not prominent; 2 = Slight prominence; 3 = Medium prominence; 4 = very prominenece; 5 Other

VARIETY	R1	R2
2	2	2

## \* PRIMARY TUBER FLESH COLOR: RHSCC

VARIETY	R1	R2
11A	11B	11C

## SECONDARY TUBER FLESH COLOR:

1 = Absent; 2 = Present, please describe

VARIETY	R1	R2
1	1	1

## RHSCC:

VARIETY	R1	R2
-	-	-



NUMBER OF TUBER / PLANT:  
 1 = Low (<8); 2 = Medium (8-15); 3 = High(>15)

VARIETY	R1	R2
2	5	1

7. DISEASES CHARACTERISTICS:

DISEASES REACTION:

0 = Not tested; 1 = Resistant; 3 = Moderately resistant; 5 = Moderately susceptible; 7 = Susceptible;  
 9 = Highly susceptible

BACTERIAL RING ROT: Foliar reaction

VARIETY	R1	R2
<del>Q</del>		

BACTERIAL RING ROT: Tuber reaction

VARIETY	R1	R2
<del>Q</del>		

LATE BLIGHT

VARIETY	R1	R2
4		

PLRV

VARIETY	R1	R2
2		

PVX

VARIETY	R1	R2
<del>Q</del>		

PVY

VARIETY	R1	R2
1		

OTHER *PVA Potato wart disease*

VARIETY	R1	R2
1		

OTHER

VARIETY	R1	R2

## 8. PESTS CHARACTERISTICS:

## PEST REACTION:

0 = Not tested; 1 = Resistant; 3 = Moderately resistant; 5 = Moderately susceptible; 7 = Susceptible;

9 = Highly susceptible

## GOLDEN NEMATODE

VARIETY	R1	R2
<i>1</i>		

## OTHER

VARIETY	R1	R2

## 9. GENE TRAITS:

## INSERTION OF GENES:

YES NO 

IF YES, DESCRIBE

## 10. QUALITY CHARACTERISTICS:

## CHIEF MARKET:

*fresh market*

## SPECIFIC GRAVITY:

1 &lt; 1.060; 2 = 1.060-1.069; 3 = 1.070-1.079; 4 = 1.080-1.089; 5 &gt; 1.090

VARIETY	R1	R2

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

VARIETY	R1	R2

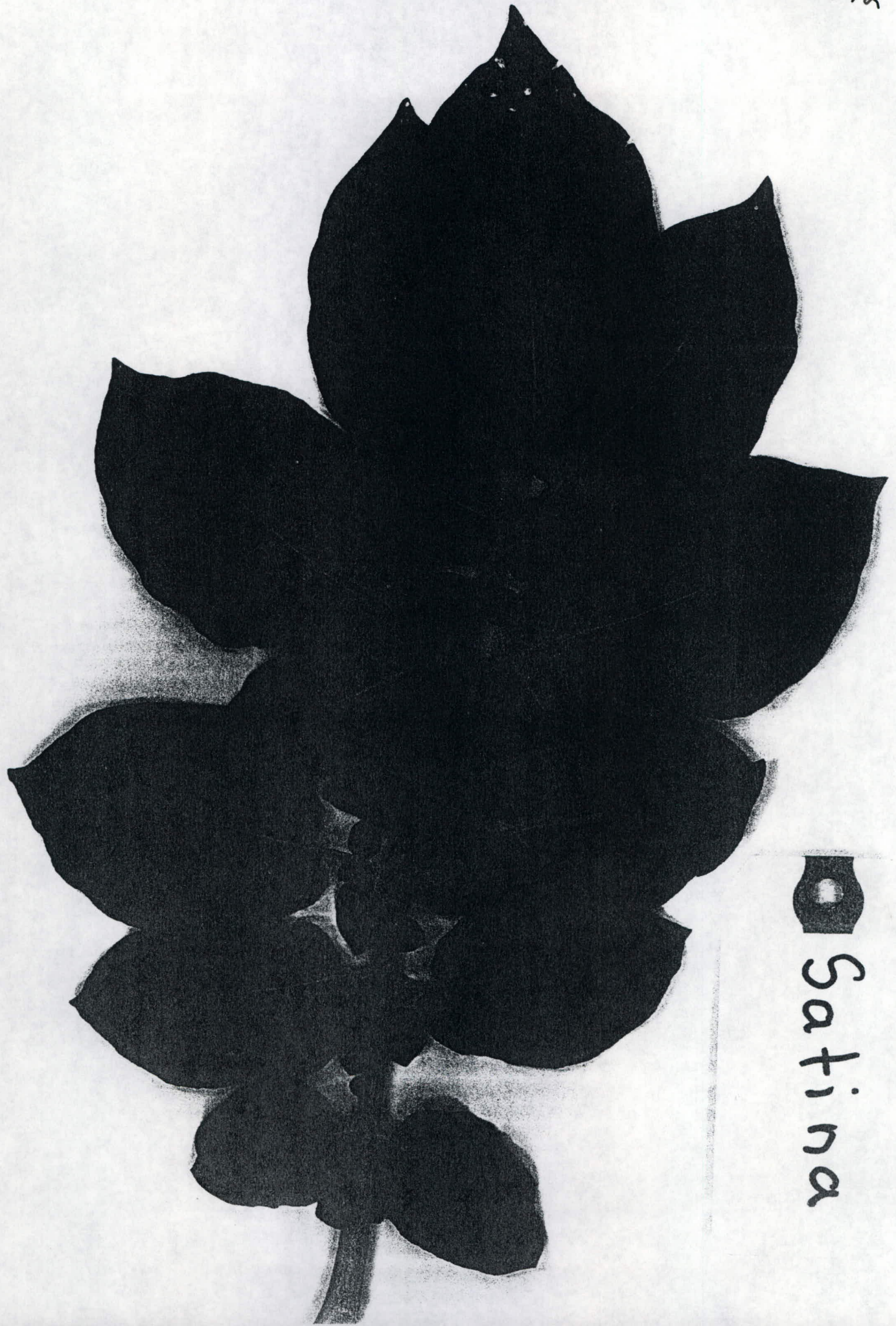
## OTHER QUALITY CHARACTERISTICS:


## 12. CHEMICAL IDENTIFICATION:

## 13. ADDITIONAL COMMENTS AND CHARACTERISTICS:

*high yielding quality consumption variety*

9600092



 Satina



9600092



RECEIVED 12/18/97



9600092



Satina

RECEIVED 12/18/97

9600092

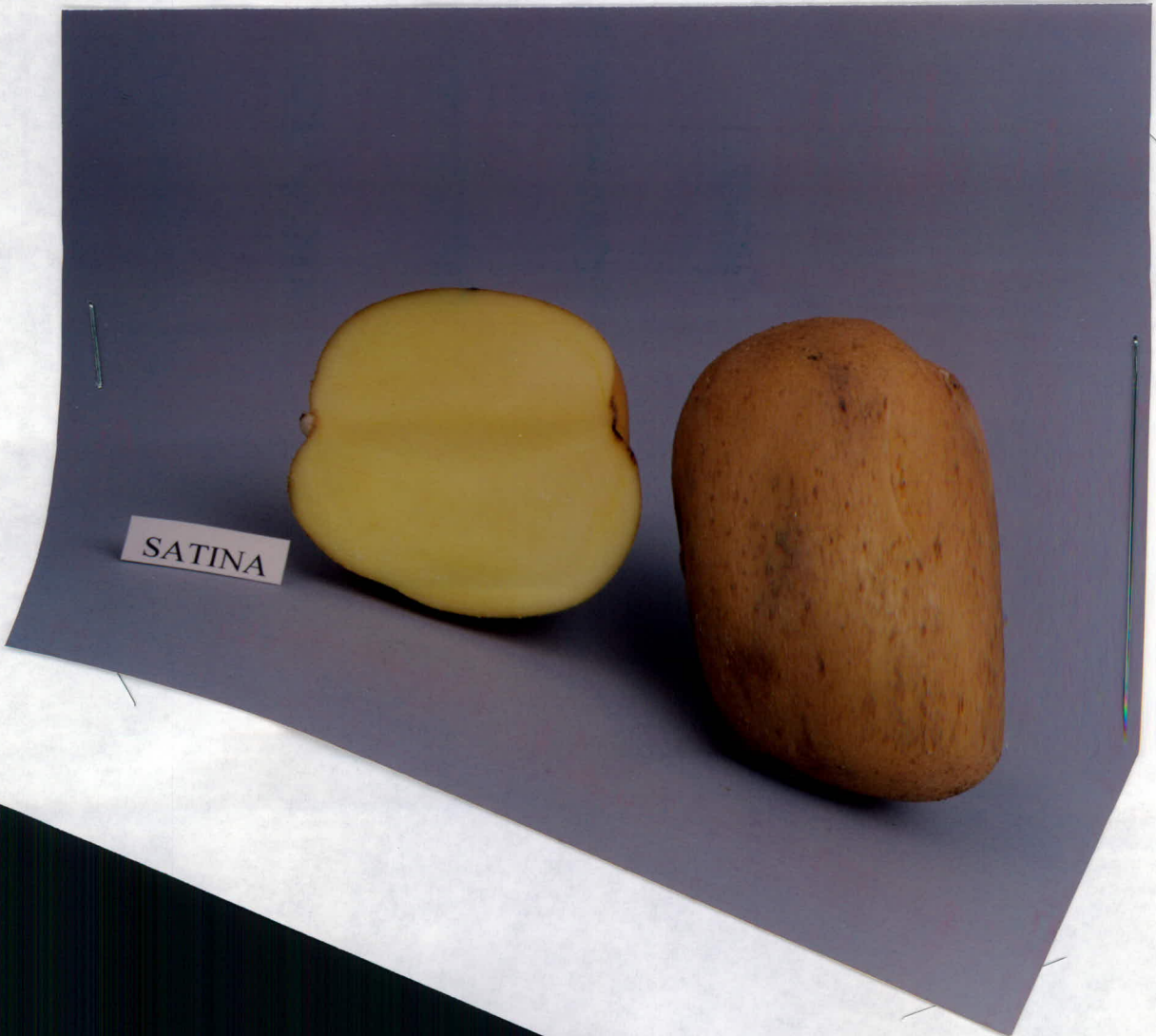
8PP1



RECEIVED 12/18/97









MORNING GOLD



YUKON GOLD

## 7.0 LIGHT SPROUT CHARACTERISTICS (+)

## 7.1 Light sprout: general shape

(\*) (+)

		CV	R1	R2	R3	R4
spherical	1	4	4	2		
ovoid	2					
conical	3					
broad cylindrical	4					
narrow cylindrical	5					
other (describe)	6					

## 7.2 Light sprout base: pubescence

(\*)

absent	1	5	3-5	5		
weak	3					
medium	5					
strong	7					
very strong	9					

## 7.3 Light sprout base: anthocyanin colouration

(\*)

green	1	2	3	2		
RED-VIOLET	2					
blue-violet	3					
other (describe)	4					

## 7.4 Light sprout base: intensity of anthocyanin colouration (if present)

(\*)

absent	1	5	5	5		
weak	3					
medium	5					
strong	7					
very strong	9					

## 7.5 Light sprout tip: habit

(+)

closed	3	5	3	3		
medium	5					
open	7					

## 7.6 Light sprout tip: pubescence

	CV	R1	R2	R3	R4
absent	1	5	3	3	
weak	3				
medium	5				
strong	7				
very strong	9				

## 7.7 Light sprout tip: anthocyanin colouration

(\*)

green	1	1	3	2		
red-violet	2					
blue-violet	3					
other (describe)	4					

## 7.8 Light sprout tip: intensity of anthocyanin colouration (if present)

absent	1	1	5	1-2		
weak	3					
medium	5					
strong	7					
very strong	9					

## 7.9 Light sprout root initials: frequency

low	3	3	5	3		
medium	5					
high	7					

## 7.10 Light sprout: protrusion of lenticels

weak	3	3	4-5	3		
medium	5					
strong	7					

## 7.11 Light sprout: length of lateral shoots

short	3	5	5-7	3		
medium	5					
long	7					

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

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

<p>1. NAME OF APPLICANT(S)  SAKA-RAGIS Pflanzenzucht GbR</p>	<p>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  2420/85</p>	<p>3. VARIETY NAME  SATINA</p>
<p>4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)  Kielortallee 9 D-20144 Hamburg Federal Republic of Germany</p>	<p>5. TELEPHONE (include area code)  ++(49)-40-446167</p> <p>7. PVPO NUMBER 96 000 92</p>	<p>6. FAX (include area code)  ++(49)-40-417716</p>

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

YES     NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country Federal Republic of Germany

YES     NO

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

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

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

11. Additional explanation on ownership (If needed, use reverse for extra space):

**LEASE NOTE:**

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

- If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 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 final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes 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.

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## SOLANA AGRAR-PRODUKTE GMBH & CO. KG · HAMBURG

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(BLZ 200 400 00)  
Acc.-No. 39 82 600

### Voucher Sample

we, SOLANA Agrarprodukte GmbH & CO. KG, herewith confirm, that we will send in December 1995 on behalf of SAKA-RAGIS Pflanzenzucht GbR each 6 tubes with tissue culture plants of the potato varieties

SATINA  
ROSARA

to

U.S. Department of Agriculture  
Animal and Plant Health Inspection Service  
Plant Protection and Quarantine Programs  
Plant Germplasm Quarantine Center  
Building 5800, BARC-E  
Beltsville, MD 20705 U.S.A.

date: 07. 12. 1995

SOLANA AGRAR-PRODUKTE  
GMBH & CO. KG