

No.



9100206

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Peetoseed Co., Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED 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 *eighteen* 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, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (7 U.S.C. 2321 ET SEQ.)

PEPPER

'Sonora Anaheim'

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 30th day of November in the year of our Lord one thousand nine hundred and ninety-two.

Attest:

*Kenneth Hearn*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Edward Madison*  
Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

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).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) <b>Petoseed Co. Inc.</b>		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO. <b>PSX 200787</b>	3. VARIETY NAME <b>Sonora Anaheim</b>
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP) <del>XXXXXXXXXXXX</del> <b>37437 State Highway 16</b> <b>Woodland, CA 95695</b>		5. PHONE (Include area code) <b>916-666-0931</b>	<b>FOR OFFICIAL USE ONLY</b> PVPO NUMBER <b>9100206</b> F I L I N G Date <b>July 1, 1991</b> Time <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. F E E S Filing and Examination Fee: \$ <b>2150.00</b> Date <b>July 1, 1991</b> R E C E I V E D Certificate Fee: \$ <b>250.00</b> Date <b>October 26, 1992</b>
6. GENUS AND SPECIES NAME <b>Capsicum annuum</b>	7. FAMILY NAME (Botanical) <b>Solanaceae</b>	8. CROP KIND NAME (Common Name) <b>Pepper</b>	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) <b>Corporation</b>		11. IF INCORPORATED, GIVE STATE OF INCORPORATION <b>California</b>	
12. DATE OF INCORPORATION <b>June 4, 1963</b>		13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS <b>Dr. Kenneth W. Owens</b> <del>XXXXXXXXXXXX</del> <b>37437 State Highway 16</b> <b>Woodland, CA 95695</b>	

PHONE (Include area code): **916-666-0931**

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

- a.  Exhibit A, Origin and Breeding History of the Variety.
- b.  Exhibit B, Novelty Statement.
- c.  Exhibit C, Objective Description of Variety.
- d.  Exhibit D, Additional Description of Variety.
- e.  Exhibit E, Statement of the Basis of Applicant's Ownership.
- f.  Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office 6/24/91
- g.  Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) 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.)  
 YES (If "YES," answer items 16 and 17 below)  NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  
 YES  NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?  
 FOUNDATION  REGISTERED  CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?  
 YES (If "YES," through  Plant Variety Protection Act  Patent Act. Give date: \_\_\_\_\_.)  
 NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?  
 YES (If "YES," give names of countries and dates) **USA, January 1991**  
 NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is 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)) <b>Kenneth Owens</b>	CAPACITY OR TITLE <b>Senior Plant Breeder</b>	DATE <b>4/19/91</b>
SIGNATURE OF APPLICANT (Owner(s))	CAPACITY OR TITLE	DATE

## INSTRUCTIONS

**GENERAL:** 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; (3) at least 2,500 viable untreated seeds; (4) check, drawn on a U.S. bank, payable to "Treasurer of the United States" in the amount of \$2,150 (\$250 filing fee and \$1,900 examination fee). (See section 180.175 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for 30 days, then returned to the applicant as unfiled. Mail application and other requirements to: Plant Variety Protection Office, AMS, USDA, Rm. 500, NAL Building, 10301 Baltimore Blvd., 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 check payable to "Treasurer of the United States" in the amount of \$250 for issuance of the Certificate.

**Plant Variety Protection Office**  
**Telephone: 301/344-2518**

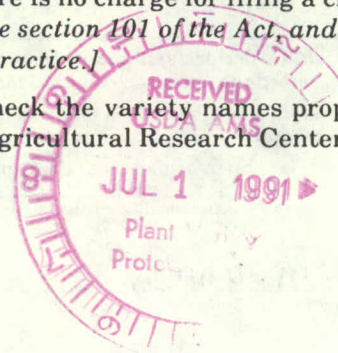
### ITEM

- 9.** Give the date when there has been at least a tentative determination that the variety has been sexually reproduced with recognized characteristics, whether or not the novelty of those characteristics has been determined. [See section 41(d) of the Plant Variety Protection Act (Act).]
- 14a.** 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) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability. (See sections 41 and 52 of the Act.)
- 14b.** Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons which clearly indicate novelty.
- 14c.** Exhibit C forms are available from the PVPO; specify crop kind. Fill in the Exhibit C (Objective Description of Variety form) to describe your variety.
- 14d.** 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.
- 14e.** Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.
- 15.** 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 either 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 section 180.16 of the Regulations and Rules of Practice.)
- 19.** See sections 41 (i, j) and 42 of the Act and section 180.7 of the Regulations and Rules of Practice for eligibility requirements.

### **NOTES:**

It is the responsibility of the applicant/owner to keep the PVPO informed of any change of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment is \$25. [See section 101 of the Act, and sections 180.130, 180.131, 180.132, and 180.175(h) of the Regulations and Rules of Practice.]

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Rm. 213, Building 306, Beltsville Agricultural Research Center -- East, Beltsville, MD 20705. Telephone: 301/344-2089.



*'Sonora Anaheim'*

EXHIBIT A - PVP APPLICATION FOR PEPPER ~~PSX 200787~~

*'Sonora Anaheim'*

Origin and Breeding History of the Pepper Variety ~~PSX 200787~~.

*JMS  
2/19/92*

*'Sonora Anaheim'*

~~PSX 200787~~ pepper is a selection from New Mexico R Naky open-pollinated pepper. Selection was begun in 1983 in the stock of seed of N Mex R Naky from Dr. Steve Tanksley of New Mexico State University. Selection was for smoother, larger fruited, high yielding types of plants with dark green thick walled fruits. Selections were made on a single plant basis in the field in Woodland, California, for 3 generations. The final 2 generations were self pollinated in the greenhouse to assure uniformity. There were no variants observed after this stage in subsequent grow outs of the foundation seed (observing a minimum of 100 plants).

## Exhibit A

## PVP Application for Pepper Sonora Anaheim Ammended 7/92

Sonora Anaheim has been observed in 1989, 1990 and 1991 in 3 Peto Research locations each year (Felda, Florida; Donna, Texas and Woodland, California) in 20 plant plots as well as in large seed production fields ( > 10,000 plants) in 1990 and 1991. The variety has been uniform and stable for the traits noted in the application. Variation occurs for 2 or 3 locular fruit, fruit smoothness and yield within normal commercial acceptability standards. We have observed Sonora Anaheim for 4 generations since 1989 for uniformity and stability and it has been maintained through seed propagation with no change in its characteristics in that time.

## Exhibit B

## Novelty statement of Pepper Variety Sonora Anaheim - Amended 7/92

PSX 200787 is an Anaheim type pepper that most closely resembles NuMex R Naky and NuMex Big Jim of all known commercial Anaheim peppers. Sonora Anaheim differs significantly from NuMex Big Jim in several other characters besides those noted in my previous statement. These include a light green immature fruit color (Sonora is dark green, see photo), anthocyanin is present on hypocotyl of seedling (Sonora has none, see photo) and NuMex Big Jim has a consistent curve or hook on the tip (stylar end) of the fruit (Sonora is straight, see photo).

Concerning the differences between Sonora Anaheim and NuMex R Naky stated in previous correspondence, the fruit length difference between these varieties was 0.76" in 1988 evaluations and 1.14" in 1989. This represents a 11 to 17% increase in fruit length which is a very large difference commercially speaking. The same holds true for wall thickness between Sonora Anaheim and NuMex R Naky, the difference in 1988 was 0.5 mm (13% increase) and in 1989 was 0.5mm (14% increase) I furnished you the data in my first correspondence on this application. These are large differences from a processing or commercial standpoint because the fruit is steam peeled and cut into various lengths for canning and salsa manufacturing. The extra wall thickness means less waste and more useable product per fruit. I am enclosing a paper on the ASTA (American Spice Trade Association) color measurements. This is the standard color measurement in the industry and as you can see is based on a reliable laboratory reading which differentiates colors better than visual comparisons. Besides those differences, Sonora Anaheim has no anthocyanin on seedling hypocotyl, NuMex R Naky does have anthocyanin on seedling hypocotyl, (see photo).

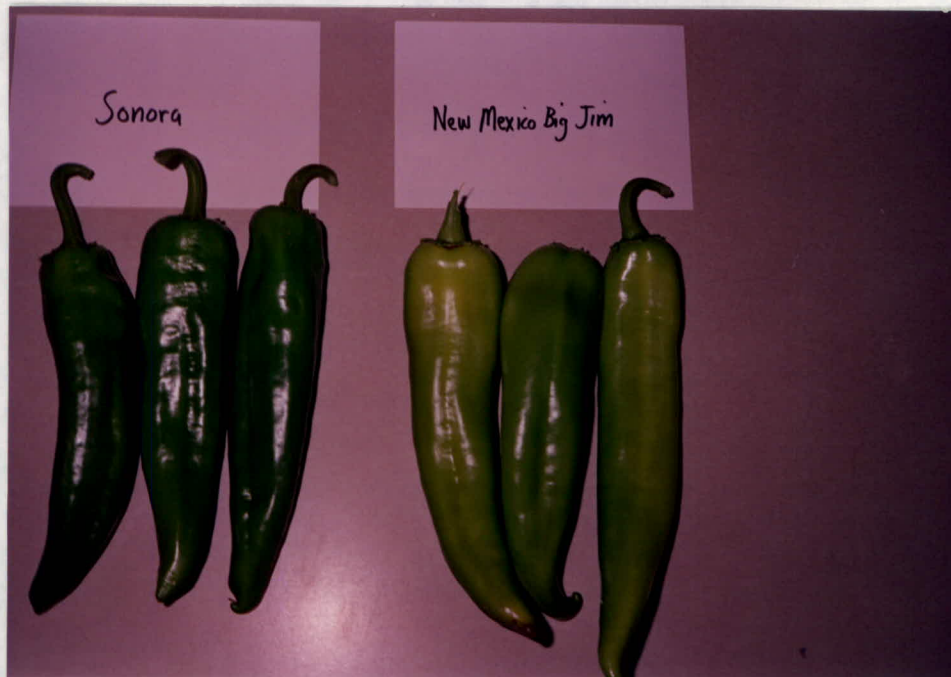
As stated previously, Sonora Anaheim differs from other varieties of Anaheim pepper in these points: Sonora Anaheim is TMV susceptible, Anaheim TMR 23 is TMV resistant. Sonora Anaheim is virus susceptible, Texas A & M Mild Chili I & II are TMV, PVY and TEV resistant.

Sonora Anaheim has mild pungency and a smaller plant than Anaheim M which has a high pungency and large plant.

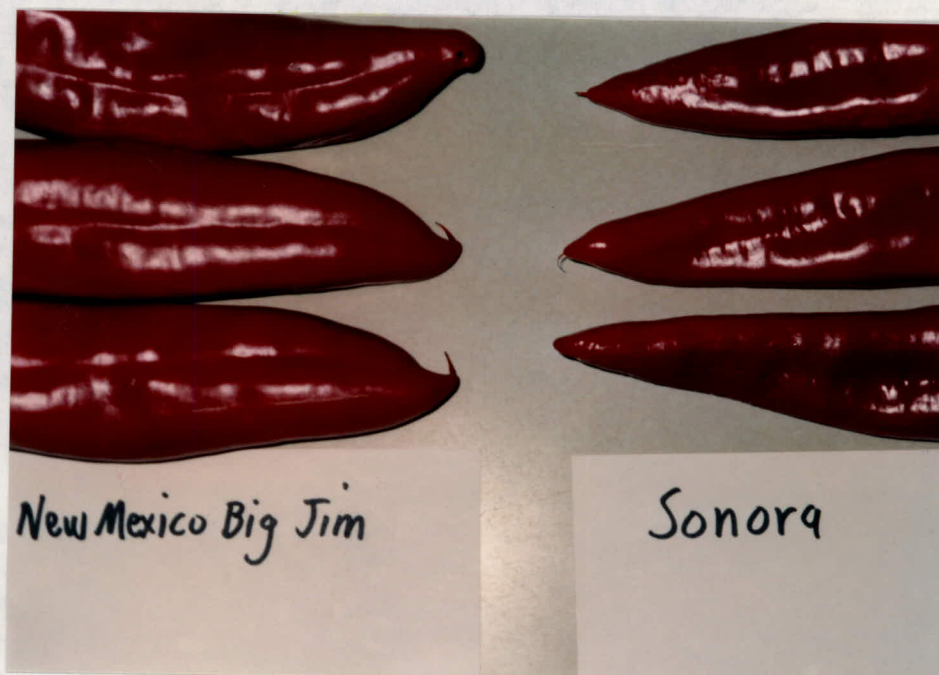
Sonora Anaheim is earlier maturing and larger plant than NuMex Sweet. (See 1989 New Mexico State University Report).

Sonora Anaheim is longer fruited and darker green fruit color than El Paso. Sonora Anaheim has a mild pungency and almost 2" (4.5 cm) fruit length difference with NuMex Conquistador which is sweet.

## Novelty Characteristics of Pepper Variety Sonora Anaheim



Fruit Color: Immature fruit color of Sonora Anaheim is darker green than that of NuMex Big Jim (New Mexico Big Jim).



Fruit Tip Shape: NuMex Big Jim (New Mexico Big Jim) has a consistent curve or hook on the tip (stylar end) of the fruit; Sonora Anaheim is straight.



Hypocotyl Anthocyanin: Sonora Anaheim has no anthocyanin coloration on the hypocotyls, but that of NuMex Big Jim (New Mexico Big Jim) has anthocyanin coloration.



Hypocotyl Anthocyanin: Sonora Anaheim has no anthocyanin coloration on the hypocotyls, but that of NuMex R Naky has anthocyanin coloration.



U.S. DEPARTMENT OF AGRICULTURE  
 AGRICULTURAL MARKETING SERVICE  
 LIVESTOCK, MEAT, GRAIN & SEED DIVISION  
 PLANT VARIETY PROTECTION OFFICE  
 BELTSVILLE, MARYLAND 20705

EXHIBIT C

(Department) Title (Pepper)

OBJECTIVE DESCRIPTION OF VARIETY  
 PEPPER (*Capsicum* spp.)

NAME OF APPLICANT(S) Petoseed Co., Inc.	TEMPORARY DESIGNATION PSX 200787	VARIETY NAME Sonora Anaheim
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code) 37437 State Highway 16 Woodland, CA 95695		FOR OFFICIAL USE ONLY PVPO NUMBER 9100206

Place the appropriate number that describes the varietal character of this variety in the boxes below. Characteristics described, including numerical measurements should represent those which are TYPICAL for the variety. Fill unused columns with zeroes (e.g.,    when number is 99). The location of the test area is Las Cruces, New Mexico. Please answer questions appropriate for your variety if the information is available.

COMPARISON VARIETIES

- |  |                      |                      |
|--|----------------------|----------------------|
| 1 = Yolo Wonder L                                  | 5 = Cayenne Long Red | 9 = Sweet Cherry     |
| 2 = Pimiento Perfection                            | 6 = Cubanelle        | 10 = Floral Gem      |
| 3 = Mexican Chili                                  | 7 = Jalapeño         | 11 = Sweet Banana    |
| <input checked="" type="radio"/> 4 = Anaheim Chili | 8 = Serrano          | 12 = Tabasco         |
|  |                      | 13 = Other (Specify) |

1. SPECIES:

1 = *C. annuum*      2 = *C. frutescens*      3 = *C. baccatum*      4 = *C. chinense*      5 = Other (Specify)

2. MARKET MATURITY:

<input type="text" value="10"/> <input type="text" value="0"/>	Days from transplanting until mature green stage	<input type="text" value="1"/> <input type="text" value="2"/> <input type="text" value="8"/>	Days from direct seed until mature green stage
<input type="text" value="13"/> <input type="text" value="0"/>	Days from transplanting until mature red or yellow stage	<input type="text" value="1"/> <input type="text" value="5"/> <input type="text" value="5"/>	Days from direct seed until mature red or yellow stage
From transplanting:			
<input type="text" value="0"/> <input type="text" value="2"/>	Days earlier than	<input type="text" value="4"/>	} Comparison varieties NuMex R Naky
<input type="text" value="0"/> <input type="text" value="0"/>	Same as	<input type="text" value="0"/>	
<input type="text" value="0"/> <input type="text" value="0"/>	Days later than	<input type="text" value="0"/>	
From direct seed:			
<input type="text" value="0"/> <input type="text" value="1"/>	Days earlier than	<input type="text" value="4"/>	} Comparison varieties Nu Mex R Naky
<input type="text" value="0"/> <input type="text" value="0"/>	Same as	<input type="text" value="0"/>	
<input type="text" value="0"/> <input type="text" value="0"/>	Days later than	<input type="text" value="0"/>	

3. PLANT:

Habit: 1 = Compact      2 = Spreading      3 = Other (Specify)

cm Height

<input type="text" value="0"/> <input type="text" value="3"/>	cm Shorter than	<input type="text" value="4"/>	} Comparison varieties Nu Mex R Naky
	Same as	<input type="text" value="0"/>	
<input type="text" value="0"/> <input type="text" value="0"/>	cm Taller than	<input type="text" value="0"/>	

7

3. PLANT (Continued):

7 7

cm Width

0 0

cm Narrower than

0

Same as

4

Comparison varieties

Nu MEX R Naky

0 0

cm Wider than

0

0 7

mm Length of third internode (from soil surface)

2

Basal branches:

1 = None

2 = Few (2-3)

3 = Many (over 3)

1

Branch flexibility:

1 = Willowy (Cayenne Long Red)

2 = Rigid (Yolo Wonder L)

4. LEAVES:

1

Foliage color:

1 = Light Green

4 = Purple

2 = Medium Green

5 = Other (Specify)

3 = Dark Green

Leaf and stem pubescence:

1 = Absence (Yolo Wonder L)

2 = Moderate (Serrano)

3 = Heavy (Chili Piquin)

1

Mature shape:

1 = Lanceolate

2 = Elliptic

2

Mature size:

1 = Small (Tabasco)

2 = Medium (Anaheim Chili)

3 = Large (Yolo Wonder L)

5. FLOWER:

6

Calyx lobe number

5

Petal number

1

Corolla color:

1 = White

2 = Purple

3 = Other (Specify)

1

Corolla throat markings color:

1 = Yellow (tan)

2 = Purple

3 = Other (Specify)

1

Anther color:

1 = Yellow

2 = Purple

3

Style length:

1 = Less than stamen

2 = Same as stamen

3 = Exceed stamen

1

Flower number per leaf axil:

1 = One

2 = Two or more

1

Self-incompatibility:

1 = Absent

2 = Present

1

Cytoplasmic male sterility:

1 = Absent

2 = Present

6. FRUIT:

4

Group:

- 1 = Beil (Yolo Wonder L)
- 2 = Pimiento (Pimiento Perfection)
- 3 = Ancho (Mexican Chili)
- 4 = Anaheim Chili (Sandia)
- 5 = Cayenne (Cayenne Long Red)
- 6 = Cuban (Cubanelle)
- 7 = Jalapeño (Jalapeño)

- 8 = Small hot (Serrano)
- 9 = Cherry (Sweet Cherry)
- 10 = Short wax (Floral Gem)
- 11 = Long wax (Sweet Banana)
- 12 = Tabasco (Tabasco)
- 13 = Other (Specify)

2

Pungency:

1 = Sweet (Yolo Wonder L)

2 = Hot (Jalapeño)

3

Immature color:

- 1 = Light Green (Cubanelle)
- 2 = Medium Green (Long Thin Cayenne)
- 3 = Dark Green (Yolo Wonder L)
- 4 = Very Dark Green (Ancho Chili)

- 5 = Yellow (Yellow Belle)
- 6 = Purple (Violetta)
- 7 = Ivory (Twiggy)
- 8 = Other (Specify)

1

Mature color:

- 1 = Red (Yolo Wonder L)
- 2 = Orange
- 3 = Orange-yellow (Golden Calwonder)
- 4 = Brown (Mulatto)

- 5 = Ivory
- 6 = Green (Permagreen)
- 7 = Salmon
- 8 = Lemon Yellow

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6. FRUIT (Continued):

1 Surface smoothness: 1 = Smooth (Yolo Wonder L) 2 = Rough (Long Thin Cayenne)

1 Calyx shape: 1 = Cup-shaped 2 = Saucer-shaped

2 Position: 1 = Upright (Santaka) 2 = Pendent (Jalapeño)

2 Base shape: 1 = Cupped (Yolo Wonder L) 2 = Rounded (Jalapeño)

1 Apex shape: 1 = Pointed (Long Thin Cayenne) 2 = Blunt (Yolo Wonder L)

2 Flesh thickness: 1 = Thin (Long Thin Cayenne) 2 = Medium (Anaheim Chili) 3 = Thick (Yolo Wonder L)

2  0 cm Length

0  0 cm Shorter than . . . . .  0

Same as . . . . .  0

0  3 cm Longer than . . . . .  4

Comparison varieties Nu MEX R NAKY

SMS  
9/17/92

0  4  3 mm Diameter of fruit at calyx attachment

0  7  9 g weight per fruit

3 Fruit shape: 1 = Bell (Yolo Wonder L) 2 = Conical (Pimiento)  
3 = Elongate (Long Thin Cayenne) 4 = Oblong (Jalapeño)  
5 = Oblate (Sunnybrook) 6 = Globe (Red Cherry)

2 Fruit set: 1 = Scattered 2 = Concentrated

2 to  3 Number of locules (range)

2 Pedicel length: 1 = Short (Yolo Wonder L) 2 = Long (Anaheim Chili)

2 Pedicel shape: 1 = Straight 2 = Curved

1 Pedicel Thickness: 1 = Slender (Cayenne) 2 = Thick (Yolo Wonder L)

7. SEED:

1 Seed color: 1 = Yellow 2 = Purple

9  5 g/1000 seeds

8. ANTHOCYANIN (1 = Absent, 2 = Present):

1 Leaf  1 Stem  2 Node  1 Calyx  1 Pedicel  1 Seedling Hypocotyl  
 1 Fruit

9. DISEASE REACTION (0 = Not tested, 1 = Susceptible, 2 = Resistant):

0 Cucumber mosaic virus  0 Bacterial spot (*Xanthomonas vesicatoria*)  
 0 Curly top virus  0 Cercospora leaf spot (*Cercospora capsici*)  
 1 Pepper mottle virus  1 Phytophthora root rot (*Phytophthora capsici*)  
 1 Potato Y virus  0 Ripe rot (*Vermicularia capsici*)  
 1 Tobacco etch virus  0 Southern blight (*Sclerotium rolfsii*)  
 1 Tobacco mosaic virus  1 Verticillium wilt (*Verticillium dahliae*)  
 0 Anthracnose (*Gloeosporium piperatum*)  0 Nematode (*Meloidogyne incognita acrita*)  
 Other (Specify) \_\_\_\_\_

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10. INDICATE THE VARIETY MOST CLOSELY RESEMBLING THE APPLICATION VARIETY FOR THE FOLLOWING:

CHARACTER	VARIETY	CHARACTER	VARIETY
Maturity	Nu Mex R Naky	Fruit shape	TMR 23, Big Jim
Plant habit	Nu Mex R Naky	Immature fruit color	Nu Mex R Naky
Leaf color	Nu Mex R Naky	Mature fruit color	Nu Mex Sweet
Leaf shape	Nu Mex R Naky	Pungency	Nu Mex R Naky, El Paso

11. COMMENTS:

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Exhibit E

Statements of the Basis of Applicant's ownership

I, Kenneth W. Owens, being the breeder of processing peppers for Petoseed Company since October 1982, was the sole breeder and was responsible for all selection of this variety. All work was done to develop new commercial varieties for Petoseed Company and Petoseed has all right to this variety. As a breeder at Petoseed, all ownership and rights to varieties developed at Petoseed are assigned to the company.

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