

201400411

# THE UNITED STATES OF AMERICA

### TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Enza Zaden Beheer B.V.

Whereas, there has been presented to the

### Secretary of Agriculture

An application requesting a certificate of protection for an alleged distinct variety of sexually reproduced, or tuber propagated plant, the name and description of which are contained in the application and exhibits, a copy of which is hereunto annexed and made a part hereof, and the various requirements of law in such cases made and provided have been complied with, and the title thereto is, from the records of the PLANT VARIETY PROTECTION OFFICE, in the applicant(s) indicated in the said copy, and whereas, upon due examination made, the said applicant(s) is (are) adjudged to be entitled to a certificate of plant variety protection under the law.

Now, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of TWENTY years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by law, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or conditioning it for propagation, or stocking it for any of the above purposes, or using it in producing a hybrid or different variety there from, to the extent provided by the PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)



Attest:

No.

Commissioner Plant Variety Protection Office Agricultural Marketing Service

### TOMATO (F1)

### 'Avalantino'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of September, in the year two thousand and fifteen.

. Vilue Secretary of Agricultu

REPRODUCE LOCALLY. Include form number and date or	n all reproductions						Form Approved - OMB No. 0581
AGRICULTURAL MARKETING SERVICE tt SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE			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).				
1. NAME OF OWNER		2. TEMPORA	RY DESIGN	ATION OR EXPERIMENTAL	L NAME	3. VAF	RIETY NAME
Enza Zaden Beh	eer B.V.	E23	.340	80(		A۱	/alantino
4. ADDRESS (Street and No., or R.F.D. No., City, State,	and ZIP Code, and Count					DVDO	FOR OFFICIAL USE ONLY
Haling 1e 1602DB Enkhuizen		+31 22 6. FAX (inclu				PVPO	201400411
The Netherlands		+31 22				FILING	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE ORGANIZATION (corporation, partnership, association, e	tc.) INCORPOR	ATION		9. DATE OF INCORPORA	TION		July 30, 2014
Corporation	Noord-H	olland, the Net	therlands	1938			
10. NAME AND ADDRESS OF OWNER REPRESENTA APPLICATION. (First person listed will receive all papers)	TIVE(S) TO SERVE IN TH			NE (Include area code)	0	F E E	FILING AND EXAMINATION FEES
Enza Zaden Beheer B.V.		-	+312	228 35010	0	s	DATE July 30, 2014
Haling 1e		1:	2. FAX (Inclu	de area code)		RE	CERTIFICATION FEE:
1602DB Enkhuizen		.	+31	228 315	960	C' D	DATE
The Netherlands			.01	220 010	500		
m.bleeker@enzazaden.nl							
14. CROP KIND (Common Name)				culentum Mi			
Tomato 17. IS THE VARIETY & FIRST GENERATION HYBRID?							OWNER SPECIFY THAT SEED OF
19. CHECK APPROPRIATE BOX FOR EACH ATTACH	NUMBE GENETI	R FOR THE APPR	OVED PETIT PLANT FOR 21. DO			IO (If "n	yes", answer items 21 and 22 below) o", go to item 23) DED S VARIETY BE LIMITED AS TO
(Follow instructions on reverse)				MBER OF CLASSES?			
a. Exhibit A. Origin and Breeding History of the Va	riety					TION	
b. Exhibit B. Statement of Distinctness			22. DO	ES THE OWNER SPECIFY			S VARIETY BE LIMITED AS TO NUM
<ul> <li>Exhibit C. Objective Description of Variety</li> <li>Exhibit D. Additional Description of the Variety (</li> </ul>	Ontional)			NERATIONS?			
e. Exhibit E. Statement of the Basis of the Owner's			-	SPECIFY THE NUMBER 1,	,2,3, etc. FO	R EACH	CLASS.
f. 📕 Filing and Examination Fee (\$4,382), make chec	ks payable to "Treasurer of			FOUNDATION			
(Mai'd dhe Alan' Vanay Anteador Office) athar in 23. HAS THE VARIETY (INCLUDING ANY HARVESTED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TR OTHER COUNTRIES?	MATERIAL) OR A HYBR	RID PRODUCED	24. IS	ional explanation is necessa THE VARIETY OR ANY CO RTY RIGHT (PLANT BREE	MPONENT O	F THE \	ace indicated on the reverse.) /ARIETY PROTECTED BY INTELLE ATENT)?
			(	🗆 YES 📕 NO			
IF YES, YOU MUST PROVIDE THE DATE OF FIRST S/ EACH COUNTRY AND THE CIRCUMSTANCES. (Pleas	e use space indicated on i	reverse.)	REFER	ENCE NUMBER. (Please u	ise space indi	icated of	n reverse.)
25. The owners declare that a viable sample of basic see accordance with such regulations as may be applicable. repository within three months of the date of the certificatu The undersigned awar(s) is (ara) the awar(s) of this se entitled to protection under the provisions of Section 42 of	For a tuber propagated va e fee request letter. These sually reproduced or tuber	niety or vegetative will be maintained propagated plant	propagated p for the dura variety, and b	arent of the variety, a tissue tion of the certificate." elieve(s) that the variety is n	e culture or veg new, distinct, u	getative uniform,	sample will be deposited in a public and stable as required in Section 42,
SIGNATURE OF OWNER	nfull		SIGNAT	URE OF OWNER			
			NAME (	Please print or type)			
J.J.M. Lambalk	DATE			TY OR TITLE		DATE	

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Page 6 of 10

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

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Avalantino has been sold in Canada on November 21, 2012 Avalantino has not been sold in the U.S.A. so far.

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).)

ST - 470 (2012) designed by the Plant Variety Protection Office

### EXHIBIT A

### Origin and Breeding History of Tomato, Avalantino

Avalantino is a hybrid fresh market tomato adapted to growing conditions in greenhouse climate. Avalantino is produced by the cross between OT2142 (seed parent) and OT3009 (pollen parent). Selection criteria for the development of this variety include yield, plant type, brix, firmness, fruit color, greenhouse adaptability.

**OT2142** (seed parent): this tomato breeding line was developed using pedigree selection. The breeding work was conducted in field plots located at the Enza Zaden Research Station located in Enkhuizen, Netherlands, Accesion LYC 04043 was harvested from the greenhouse in Enkhuizen and used to create a large segregating population that was planted in Enkhuizen. Six generations of individual horticultural pedigree selections followed, with the line being bulked in 2005 for Foundation Seed. The breeding history for line OT2142 is as follows:

2002 Enkhuizen, Netherlands	F2	(LYC 04043)	
2002 Enkhuizen, Netherlands	F3	(LYC 04043)	
2003 Enkhuizen, Netherlands	F4	(LYC 04043)	
2003 Enkhuizen, Netherlands	F5	(LYC 04043)	
2004 Enkhuizen, Netherlands	F6	(LYC 04043)	
2004 Enkhuizen, Netherlands	F7	(LYC 04043)	
2005 Enkhuizen, Netherlands	F8	Line bulked, designated as OT3009 and submitted to FS for seed increase	

**OT3009** (pollen parent): this tomato breeding line was developed using a combination of crossing and pedigree selection. All crossing and pedigree selection was conducted in greenhouses at the Enza Zaden Research Station located in Enkhuizen, Netherlands. Breeding line 2003.43887 is used as a resistant source for Tobacco Mosaic Virus (ToMV), Oidium Neolycopersici (On), Fusarium Oxysporum race 0 and 1 (Fol:0 and Fol:1). Breeding line 2003.43939 is used as a source for high brix level. A cross between these breeding lines was made, followed by 8 generations of single plant pedigree selection and then bulked in F10 for Foundation Seed. The resistances were assessed by Polymerase Chain Reaction (PCR) and confirmed by bio assay. The breeding history for line OT3009 is as follows:

2003 Enkhuizen, Netherlands	F1	(2003.43887 x 2003.43939)
2004 Enkhuizen, Netherlands	F2	
2004 Enkhuizen, Netherlands	F3	
2005 Enkhuizen, Netherlands	F4	Line tested as fixed for ToMV resistance
2005 Enkhuizen, Netherlands	F5	Line tested as fixed for Fol:0 and Fol:1 resistance
2006 Enkhuizen, Netherlands	F6	
2006 Enkhuizen, Netherlands	F7	Line tested as fixed for On resistance
2007 Enkhuizen, Netherlands	F8	
2007 Enkhuizen, Netherlands	F9	
2008 Enkhuizen, Netherlands	F10	Line bulked, designated as OT3009 and submitted to FS for seed increase

Avalantino is a hybrid tomato intended for greenhouse production and offers a good yield potential with an excellent high brix level for its fruit size. The fruits have a deep red color, a good skin quality and are small and uniform. The

plants are easy to grow with an open plant habit and grow straight to the wire. There is no specific suggested transplanting dates, transplanting can be done year round.

From observations made during the 2010 and 2011 growing season, Avalantino was found to be uniform and stable within commercially acceptable limits. No genetic variants are known and, to date, this hybrid has been observed to be completely uniform and stable for at least two seasons.

### EXHIBIT B Statement of Distinctness for Tomato, Avalantino

Avalantino is a hybrid tomato adapted to greenhouse growing conditions. This hybrid has excellent horticultural characteristics: its vines are uniform, a good plant habit, grows straight to the wire and exceptional fruit set capabilities. The fruits are small, uniform in size and shape, have a deep red color and an excellent brix level for its fruit size. Avalantino is resistant to Tomato Mosaic Virus Strain 0,1 and 2: Flavia Fulvum Race A, B, C, D and E; Verticillum Albo-Atrum; Verticillium Dahlia, Fusarium Oxysporium Race 0 and 1; Fusarium Oxysporium Crown and Root Rot. Avalantino is tolerant to Oidium Neolycopersici; Silvering.

To our knowledge, the most similar variety to Avalantino is variety Roterno, a widely adapted hybrid tomato in the green house business for the taste segment. The characteristics which best distuingish these two varieties include, but may not be limited to:

- Internode Length: the Internode Length (Length between 2 vines) of Avalantino is 34 cm whereas the Internode Length of Roterno is 30 cm.
- Leaf attitude (in middle 3th of the plant): The leaf attitude of Avalantino is horizontal to semidrooping, whereas the Leaf attitude of Roterno is semi-erect.
- Leaf attitude of petiole of leaflet in relation to main axis (in middle 3th of the plant): The Leaf attitude of petiole of leaflet in relation to main axis of Avalantino is horizontal to semi-erect, whereas the leaf attitude of petiole of leaflet in relation to main axis of Roterno is erect (See photo 1)
- Intensity of green color (before maturity): The intensity of green color of Avalantino is light green, whereas the intensity of green color of Roterno is medium green. (see photo 2)
- Color of the gel (inside the fruit): The color of the gel of Avalantino is dark green, whereas the color of the gel of Roterno is light green. (see photo 2)

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Photo 2

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### EXHIBIT C

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### AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

### **OBJECTIVE DESCRIPTION OF VARIETY** TOMATO (Lycopersicon esculentum Mill.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME				
Enza Zaden Beheer B.V. E23.34008		Avalantino				
ADDRESS (Street and No. or RD No., City, State, Zip Code, an						
Haling 1e	PVPO NUMBER					
1602 DB Enkhuizen						
The Netherlands						
Choose responses for the following characters which best fit your variety. Complete this form as fully as possible for best characterization of the variety. When a						
single quantitative value is requested (e.g., fruit weight), your answer should be the mean of an adequate- sized, unbiased sample of plants. Use leading zeros						

when necessary (e.g., 0 9 or 0 8 1, etc.). The applicant variety should be compared with at least one well-known standard check variety of the same type (see list of recommended check varieties below), and grown in the same trials. The characters on this form should be described from plants grown under normal conditions

of culture for the variety. Indicated by check whether trial data are from green house X or field \_\_\_\_ planting. Trials direct-seeded or transplanted; staked \_\_\_\_

or unstaked X. Give locations and dates of seeding and transplanting here:

### Exhibit A refers.

COMPARISONS SHOULD BE MADE TO ONE OR MORE CHECK VARIETIES IN THE FOLLOWING LIST. IF AT ALL POSSIBLE, ENTER THE NUMBER OF THE CHECK IN BOXES WHERE IDENTITY OF CHECK IS REQUESTED.

- 1 = Ace 55 VF 2 = Campbell 37 3 = Chico III 4 = Flora Dada 5 = Florida MH-1 6 = Heinz 1350
  - 7 ≃ Homestead 24 8 = Marglobe 9 = Murietta 10 = New Yorker 11 = Ohio MR-13 12 = Red Cherry Large

2 Anthocyanin in hypocotyl of 2 – 15 cm seedling: 1 = Absent 2 = Present

13 = Red Rock 14 = Roma VF 15 = Rutgers 16 = Sunray 17 = Tropic

19 = VF 134 20 = US 28 21 = VF 145 B 7879 Roterno 22 = Other (Specify)

1 Habit of 3 – 4 week old seedling: 1 = Normal 2 = Compact

2. MATURE PLANT (at maximum vegetative development)

11 5 0 CM Height

1. SEEDLING

1 Growth: 1 = Indeterminate 2 = Determinate

2 Form: 1 = Lax, open 2 = Normal 3 = Compact 4 = Dwarf 5 = Brachytic

2 Size of canopy (compared to others of similar type): 1 = Small 2 = Medium 3 = Large

2 Habit: 1 = Sprawling (decumbent) 2 = Semi-erect 3 = Erect ('Dwarf Champion')

	Exhibit C (Tomato)	$\mathbf{N}$
3. STEM		01
2 Branching: 1 = Sparse ('Brehm's Solid Red', 'Fireball') 2 = Intermediate ('Westover') 3 = Profuse ('UC 82')		0140041
Branching at cotyledonary or first leafy node: 1 = Present 2 = Absent		Õ
<u>3</u> No. of nodes between first inflorescence: $1 = 1-4$ $2 = 4-7$ $3 = 7-10$ $4 = 10$ or more		41
1 No. of nodes between early (1 <sup>st</sup> - 2 <sup>nd</sup> , 2 <sup>nd</sup> - 3 <sup>rd</sup> ) inflorescences.	ences.	
Pubescence on younger stems: 1 = Smooth (no long hairs) 2 = Sparsely hairy (scattered long hairs) 3 = M oderately hairy 4 = Densely ha	airy or wooly	
4. LEAF (mature leaf beneath the 3 <sup>rd</sup> inflorescence)		
Type: 1 = Tomato 2 = Potato ('Trip-L-Crop') Morphology (choose illustration at the end of this form that is most similar	ar)	
Margins of major leaflets: 1 = Nearly entire 2 = Shallowly toothed or scalloped 3 = Deeply toothed or cut, sps. Toward base		⊆
Marginal rolling or wiltiness: 1 = Absent 2 = Slight 3 = Moderate 4 = Strong		noff
Onset of leaflet rolling: 1 = Early-season 2 = Mid-season 3 = Late season		ficia
Surface of major leaflets: 1 = Smooth 2 = Rugose (bumpy or veiny)		0 0
Pubescence: 1 = Smooth (no long hairs) 2 = Normal 3 = Hirsute 4 = Wooly		Unofficial Copy
5. INFLORESCENCE (make observations on 3 <sup>rd</sup> inflorescence)		
<u>1</u> Type: 1 = Simple 2 = Forked (2 major axes) 3 = Compound (much branched)		
1 2 Number of flowers in inflorescence. Average		
Leafy or "running" inflorescences: 1 = Absent 2 = Occasional 3 = Frequent		
6. FLOWER		
Calyx: 1 = Normal, lobes awl-shaped 2 = Macrocalyx, lobes large, lea flike 3 = Fleshy		
2 Calyx-lobes: 1 = Shorter the corolla 2 = Approx. equalling corolla 3 = Distinctly longer than corolla		
1 Corolla color: 1 = Yellow 2 = Old gold 3 = White or tan		
2 Style pubescence: 1 = Absent 2 = Sparse 3 = Dense		
Anthers: 1 = AII fused into tube 2 = Separateing into 2 or more groups at anthesis		
1 Fasciation (1 <sup>st</sup> flower of 2 <sup>nd</sup> or 3 <sup>rd</sup> inflorescence): 1 = Absent 2 = Occasionally present 3 = Frequently present		
7. FRUIT (3 <sup>rd</sup> fruit of 3nd or 3 <sup>rd</sup> cluster) For the first 5 characters below, match your variety with the most similar illustration on pages at the end of the	ni s form.	
<u>2</u> Typical fruit shape <u>1</u> Shape of transverse section <u>1</u> Shape of stem end		
2 Shape of bloss om end _1 Shape of pistil scar		
Abscission layer: 1 = Present (pedicellate) 2 = Absent (jointles s)		
Point of detachment of fruit at harves t: 1 = At pedicel joint 2 = At calyx attachment		
1 4 MM length of dedicel (from joint to calyx attachment)		
4_8 MM length of mature fruit (stem axis)5_1 MM lengt h, check var. no2_2		
5 6 MM diameter of fruit at widest point 5 9 MM diam eter, check var. no. 2 2		
7 5 G weight of mature fruit 8 5 G weight, check var. no. 2 2		
No. of locules: 1 = Two 2 = Three and four 3 = Five or more		
1 Fruit surface: 1 = Smooth 2 = Slight ly rough 3 = Moderately rough or ribbed		
Fruit base color (mature-green stage): 1 = Light green ('Lanai', 'VF 145-F5') 2 = Light gray-green 3 = Apple or medium green ('Heinz 1439 VF') 4 = Yellow green 5 = Dark green	een	
Fruit pattern (mature-green stage): 1 = Uni form green 2 = Green-shouldered 3 = Radi al stripes on sides of fruit		

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Page 2 of 7

Exhibit C (Tomato)

7.	FRL	JIT (continued)
		Shoulder color if different from base: 1 = Dark green 2 = Grey green 3 = Yellow green
	5	Fruit color, full-ripe: 1 = White 2 = Yellow 3 = Orange 4 = Pink 5 = Red 6 = Brownish 7 = Greenish 8 = Other (specify)
	3	Flesh color, full-ripe: 1 = Yellow 2 = Pink 3 = Red/Crimson 4 = Orange 5 = Other (specify)
	1	Flesh color: 1 = Uniform 2 = With lighter and darker ar eas in walls
	3	Locular gel color of table-ripe fruit: 1 = Green 2 = Yellow 3 = Red
	_2_	Ripening: 1 = Blossom-to-stem en d 2 = Uniform
	_2	Ripening: 1 = Inside out 2 = Uniformly 3 = Outside in
	2	Stem scar size: 1 = Small ('Roma') 2 = Medium ('Rutgers') 3 = Large
	1	Core: 1 = Coreless (absent or smaller than 6x6 MM) 2 = Present
	2	Epidermis color: 1 = Colorless 2 = Yellow
	_1	Epidermis: 1 = Normal 2 = Easy-peel
	_2	Epidermis texture: 1 = Tender 2 = Average 3 = Tough
	_7	Thickness of pericarp Thickness of pericarp. Check var. no 2
	2	Anthocyanin in hypocotyl of 2 – 15 mc seedling: 1 = Absent 2 = Present Habit of 3 – 4 week old seedling: 1 = Normal 2 = Compact

### 8. RESISTANCE TO FRUIT DISORDER

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

NOTE If claim of novelty is based wholly or in substantial part upon resistance, trial data should be appended. These should specify the method of testing, the reaction of the applicatoni variety, and reaction of well-known check varieties grown in the trial (identified by name).

2 Blossom end rot	<u>1</u> Catface	0 Fruit pox	Zippering
<u>1</u> Blotchy ripening	2 Cracking, concentric	0 Gold fleck	Other (specify)
<u>0</u> Bursting	2 Cracking, radial	1 Graywall	

	Exhibit C (Tomato)	-N
9. DISEASE AND PEST REACTION		-
0 = Not Tested 1 = Highly Resistant 2 = Resistant F 5 = Intermedia Susceptible 6 = Moderate Sus ceptible	ew Symptoms 3 = Resistance Few Lessions in Number and Size 4 = Moderately Resistance 7 = Susceptible 9 = Highly Susceptible	0140041
	t upon disease resistance, trial data should be appended. These should specify the method of well-known check varieties grown in the trial (identified by name).	041
Viral Diseases:		
0 Cucumber mosaic 1 Tobacco mosaic, Race 0	_0_ Tobacco mosaic, Race2 <sup>2</sup>	
<u>0</u> Curly top <u>1</u> Tobacco mosaic, Race 1	_0 Tomato spotted wilt	
0 Potato-Y virus 1 Tobacco mosaic, Race 2	_0 Tomato yellows	
<u>1</u> Blotchy ripening <u>2</u> Cracking, concentric	0 Gold fleck	_
Other virus (specify)		Unofficial Copy
Bacterial Diseases:		fficia
Bacterial canker (Corynebacterium michiganense)	<u>0</u> Bacterial spot (Xanthomonas vesicatorium)	0 0
Bacterial soft rot (Erwinia corotovora)	0 Bacterial wilt (Pseudomonas solanacearum)	opy
<u>0</u> Bacterial speck ( <i>Pseudomonas tomato</i> )	Other bacterial disease (specify)	
Fungal Diseases:		
Anthracnose (Colletotrichum spp.)	_1_ Leaf mold, Race 1 (Cladosporium fulvum) (Fulvia fulva new name)	
Brown root rot or corky root (Pyrenochaeta lycopersici)	_1 Leaf mold, Race 2 ( <i>Clados porium fulvum</i> ) internet search to verify LAWC 10/8/14	
Collar rot or stem canker (Alternaria solani)	_1 Leaf mold, Race 3 ( <i>Cladosporium fulvum</i> )	
<u>0</u> Early blight defoliation (Alternaria solani)	_0 Leaf mold, other races (specify)	
Fusarium wilt, Race 1 (F. oxysporum f. lycopersici)	_0 Nailhead spot (Alternaria tomato)	
Fusarium wilt, Race 2 ( <i>F. oxysporum f. lycopersici</i> )	Seporia leafspot (S. lycopersici)	
Fusarium wilt, Race 3 (F. oxysporum f. lycopersici)	Target leafspot (Corynespora casiicola)	
O Gray leaf spot (Stemphylium spp.)	1 Verticillium wilt, Race 1 (V. albo-atrum)	
Late blight, Race 0 (Phytophthora infestans)	Uerticillium wilt Race 2	
0 Late blight, Race 1	2 Other fungal disease (specify) Oidium lycopersicum	
Insects and Pests:		
Colorado po tato beetle (Leptinotarsa de cemlineata)	Tomato hornworm (Manduca quinquemaculata)	
<u>0</u> Southern root knot nematode ( <i>Meloidogy ne incognita</i> )	0 Tomato fruitworm ( <i>Heliothis zea</i> )	
<u>0</u> Spider mites ( <i>Tetranychus</i> spp.)	0 Whitefly ( <i>Trialeurodes vaporariorum</i> )	
0 Sugar beet ar my worm (Spodoptera exigual)	Other (specify)	
0 Tobacco flea beetle ( <i>Epitrix hirtipennis</i> )		
Pollutants:		

Sulfur dioxide

Other (specify)

Page 4 of 7

Exhibit C (Tomato)

10. CHEMISTRY AND COMPOSITION OF FULL-RIPE FRUITS Suggested test methods may be found in "Tomato Products", 5<sup>th</sup> ed., National Canners As sn. Bull. 27-L. Please specify test methods or give a reference to methods used. Fill in table below with values for the new variety and for at lease one well-known check variety of similar type grown in the same trial. Specify names or numbers of check varieties.

	Submitted Variety	Check Variety Roterno	Check Variety	Check Variety
рН				
Titratable acidity, as % citric	0,34	0,30		
Total solids (dry matter, seeds and skin removed)				
Soluble solids as <sup>°</sup> Brix	5,8	5,1		

11. PHENOL OGY Express length of developmental stages either as calendar days or as heat units (growing degree days), in degrees Cels ius. If heat units are used, indicate the base temperature used in their calculation hear \_\_\_\_\_°C. See paper by Warnock under "References" for method. Give comparative data for at least one check variety; identify checks by name or by number from table on page 1.

	Application Variety	Check Variety	Check Variety	Check Variety
Seeding to 50% flow (1 open on 50% of plants)				
Seed to once over harvest (if applicable)	94%			

1 Fruiting season: 1 = Long ('Marglobe) 2 = Medium ('Westover') 3 = Short, concentrated ('VF 145') 4 = Very concentrated ('UC 82')

 Relative maturity in areas tested:	1 = Early	2 = Medium early	3 = Medium	4 = Medium late	5 = Late	6 = Variable
	(If relative	e maturity is known	to differ by loc	ation or environme	ent, please	e explain on separate sheet)

12. ADAPTATION If more that one category applies, list all in rank order.

2 Culture: 1 = Field 2 = Greenhouse

2

\_\_\_\_ Principle use(s): 1 = Home garden 2 = Fresh market 3 = Whole-pack canning 4 = Concentrated products

5 = Other (specify)

1 Machine harvest: 1 = Not adapted 2 = Adapted

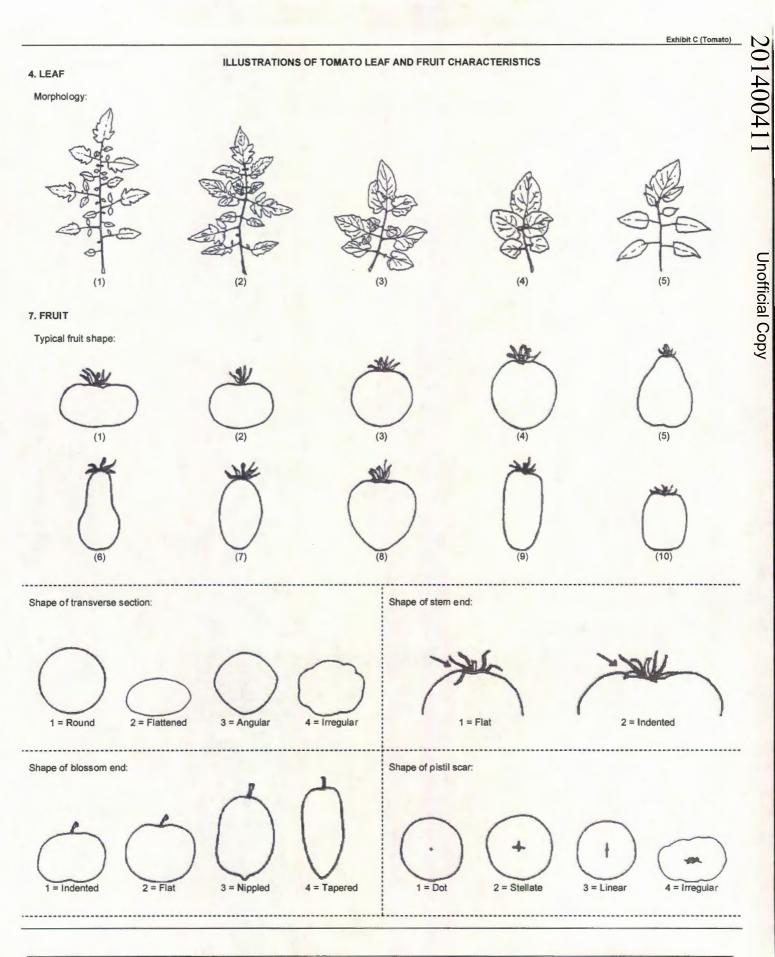
10 11 3 Regions to which ada	aptation has been demo nstrate	d:	
1 = Northeast	2 = Mid Atlantic	3 = Southeast	4 = Florida
6 = South-central	7 = Intermountain West	8 = Northwest	9 = California
10 = California: Coastal A reas	11 = California: Southern San	Joaquin Valley & deserts	

- a 5 = Great Plains
- California: Sacramento and Upper San Joaquin Valley

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Page 5 of 7



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2014 AUG 5 AM10:12

Page 6 of 7

Exhibit C (Tomato)

### REFERENCES

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Page 7 of 7





Photo 1

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

### OBJECTIVE DESCRIPTION OF VARIETY TOMATO (Lycopersicon esculentum Mill.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME	Unof
ADDRESS (Street and No. or RD No., City, State, Zip Code, an	nd Country)	FOR OFFICIAL USE ONLY	ficia
		PVPO NUMBER most similar variety	al Co
		Roterno	ру

Choose responses for the following characters which best fit your variety. Complete this form as fully as possible for best characterization of the variety. When a single quantitative value is requested (e.g., fruit weight), your answer should be the mean of an adequate-sized, unbiased sample of plants. Use leading zeros when necessary (e.g., <u>0 9 or 0 8 1</u>, etc.). The applicant variety should be compared with at least one well-known standard check variety of the same type (see list of recommended check varieties below), and grown in the same trials. The characters on this form should be described from plants grown under normal conditions of culture for the variety. Indicated by check whether trial data are from green house \_\_\_\_ or field \_\_\_\_ planting. Trials direct-seeded \_\_\_\_ or transplanted; staked \_ or unstaked \_\_\_\_. Give locations and dates of seeding and transplanting here:

### COMPARISONS SHOULD BE MADE TO ONE OR MORE CHECK VARIETIES IN THE FOLLOWING LIST. IF AT ALL POSSIBLE, ENTER THE NUMBER OF THE CHECK IN BOXES WHERE IDENTITY OF CHECK IS REQUESTED.

- 1 = Ace 55 VF
- 2 = Campbell 37 3 = Chico III
- 4 = Flora Dada
- 5 = Florida MH-1 6 = Heinz 1350

7 = Homestead 24 8 = Marglobe 9 = Murietta10 = New Yorker 11 = Ohio MR-13 12 = Red Cherry Large 13 = Red Rock 14 = Roma VF 15 = Rutaers 16 = Sunray 17 = Tropic

19 = VF 13420 = US 28 21 = VF 145 B 7879 22 = Other (Specify)

### 1. SEEDLING

\_2\_ Anthocyanin in hypocotyl of 2 – 15 cm seedling: 1 = Absent 2 = Present

2. MATURE PLANT (at maximum vegetative development)

\_1100\_\_ \_\_\_ CM Height

\_1\_\_ Growth: 1 = Indeterminate 2 = Determinate

\_\_2\_ Form: 1 = Lax, open 2 = Normal 3 = Compact 4 = Dwarf 5 = Brachytic

\_2\_ Size of canopy (compared to others of similar type): 1 = Small 2 = Medium 3 = Large

\_2\_ Habit: 1 = Sprawling (decumbent) 2 = Semi-erect 3 = Erect ('Dwarf Champion')

\_1\_\_\_ Habit of 3 – 4 week old seedling: 1 = Normal 2 = Compact

### 3. STEM

- \_2\_\_ Branching: 1 = Sparse ('Brehm's Solid Red', 'Fireball') 2 = Intermediate ('Westover') 3 = Profuse ('UC 82')
- \_\_1\_ Branching at cotyledonary or first leafy node: 1 = Present 2 = Absent
- \_\_3\_ No. of nodes between first inflorescence: 1 = 1-4 2 = 4-7 3 = 7-10 4 = 10 or more
- $1_{No.}$  of nodes between early ( $1^{st} 2^{nd}$ ,  $2^{nd} 3^{rd}$ ) inflorescences.  $1_{No.}$  of nodes between later developing inflorescences.
- \_1\_ Pubescence on younger stems: 1 = Smooth (no long hairs) 2 = Sparsely hairy (scattered long hairs) 3 = Moderately hairy 4 = Densely hairy or wooly

### 4. LEAF (mature leaf beneath the 3<sup>rd</sup> inflorescence)

- \_1\_ Type: 1 = Tomato 2 = Potato ('Trip-L-Crop') \_\_2\_ Morphology (choose illustration at the end of this form that is most similar)
- \_2\_ Margins of major leaflets: 1 = Nearly entire 2 = Shallowly toothed or scalloped 3 = Deeply toothed or cut, sps. Toward base
- \_1\_ Marginal rolling or wiltiness: 1 = Absent 2 = Slight 3 = Moderate 4 = Strong
- \_\_\_\_ Onset of leaflet rolling: 1 = Early-season 2 = Mid-season 3 = Late season
- \_1\_ Surface of major leaflets: 1 = Smooth 2 = Rugose (bumpy or veiny)
- \_2\_ Pubescence: 1 = Smooth (no long hairs) 2 = Normal 3 = Hirsute 4 = Wooly

### 5. INFLORESCENCE (make observations on 3<sup>rd</sup> inflorescence)

- \_1\_ Type: 1 = Simple 2 = Forked (2 major axes) 3 = Compound (much branched)
- \_1\_\_0\_ Number of flowers in inflorescence. Average
- \_1\_ Leafy or "running" inflorescences: 1 = Absent 2 = Occasional 3 = Frequent

### 6. FLOWER

- \_1\_ Calyx: 1 = Normal, lobes awl-shaped 2 = Macrocalyx, lobes large, leaflike 3 = Fleshy
- \_2\_ Calyx-lobes: 1 = Shorter the corolla 2 = Approx. equalling corolla 3 = Distinctly longer than corolla
- \_1\_ Corolla color: 1 =Yellow 2 =Old gold 3 =White or tan
- \_2\_ Style pubescence: 1 = Absent 2 = Sparse 3 = Dense
- \_1\_ Anthers: 1 = All fused into tube 2 = Separateing into 2 or more groups at anthesis
- \_1\_ Fasciation (1<sup>st</sup> flower of 2<sup>nd</sup> or 3<sup>rd</sup> inflorescence): 1 = Absent 2 = Occasionally present 3 = Frequently present

7. FRUIT (3<sup>rd</sup> fruit of 3nd or 3<sup>rd</sup> cluster) For the first 5 characters below, match your variety with the most similar illustration on pages at the end of this form.

_2_ Typical fruit shape	_1_ Shape of transverse section	_1_ Shape of stem end
	_2_ Shape of blossom end	_1_ Shape of pistil scar
_1_ Abscission layer: 1 = Present (pedicellate	) 2 = Absent (jointless)	
_1_ Point of detachment of fruit at harvest: 1 =	= At pedicel joint 2 = At calyx attachment	
_13_ MM length of dedicel (from joint to ca	lyx attachment)	
51_ MM length of mature fruit (stem a	axis) MM length, check var. n	0
59_ MM diameter of fruit at widest po	int MM diameter, check var	. no
85_ G weight of mature fruit	G weight, check var. no.	·
_1_ No. of locules: 1 = Two 2 = Three and fou	r 3 = Five or more	
_1_ Fruit surface: 1 = Smooth 2 = Slight ly ro	bugh 3 = Moderately rough or ribbed	
_2_ Fruit base color (mature-green stage): 1 = Light green ('Lanai', 'VF 145-F5') 2	= Light gray-green 3 = Apple or medium green (*	Heinz 1439 VF') 4 = Yellow green 5 = Dark green
_1_ Fruit pattern (mature-green stage): 1 = Ur	niform green 2 = Green-shouldered 3 = Radial s	tripes on sides of fruit

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\_1\_ Habit of 3 – 4 week old seedling: 1 = Normal 2 = Compact

# 7. FRUIT (continued) Shoulder color if different from base: 1 = Dark green 2 = Grey green 3 = Yellow green 5. Fruit color, full-ripe: 1 = White 2 = Yellow 3 = Orange 4 = Pink 5 = Red 6 = Brownish 7 = Greenish 8 = Other (specify) 3. Flesh color, full-ripe: 1 = Yellow 2 = Pink 3 = Red/Crimson 4 = Orange 5 = Other (specify) 1. Flesh color: 1 = Uniform 2 = With lighter and darker areas in walls 2. Locular gel color of table-ripe fruit: 1 = Green 2 = Yellow 3 = Red 2. Ripening: 1 = Blossom-to-stem end 2 = Uniform 2. Ripening: 1 = Inside out 2 = Uniformly 3 = Outside in 2. Stem scar size: 1 = Small ('Roma') 2 = Medium ('Rutgers') 3 = Large 1. Core: 1 = Coreless (absent or smaller than 6x6 MM) 2 = Present 2. Epidermis: 1 = Normal 2 = Easy-peel 2. Epidermis texture: 1 = Tender 2 = Average 3 = Tough 9. Thickness of pericarp

### 8. RESISTANCE TO FRUIT DISORDER

\_2\_ Anthocyanin in hypocotyl of 2 – 15 mc seedling: 1 = Absent 2 = Present

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

**NOTE** If claim of novelty is based wholly or in substantial part upon resistance, trial data should be appended. These should specify the method of testing, the reaction of the applicatoni variety, and reaction of well-known check varieties grown in the trial (identified by name).

_2_ Blossom end rot	_1_ Catface	_0_ Fruit pox	_0_ Zippering
_1_ Blotchy ripening	_2_ Cracking, concentric	_0_ Gold fleck	Other (specify)
_0_ Bursting	_2_ Cracking, radial	_1_ Graywall	

### 9. DISEASE AND 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

20140041] NOTE If claim of novelty is based wholly or in substantial part upon disease resistance, trial data should be appended. These should specify the method of testing, the reaction of the applicatoni variety, and reaction of well-known check varieties grown in the trial (identified by name).

### Viral Diseases:

_0_ Cucumber mosaic _1_ Tobacco mosaic, Race 0	_0_ Tobacco mosaic, Race2 <sup>2</sup>
_0_ Curly top _1_ Tobacco mosaic, Race 1	_0_ Tomato spotted wilt
_0_ Potato-Y virus _2_ Tobacco mosaic, Race 2	_0_ Tomato yellows
_1_ Blotchy ripening _2_ Cracking, concentric	_0_ Gold fleck
_1 Other virus (specify)Tomato Spotted Wilt Virus	
Bacterial Diseases:	
_0_ Bacterial canker (Corynebacterium michiganense)	_0_ Bacterial spot (Xanthomonas vesicatorium)
_0_ Bacterial soft rot (Erwinia corotovora)	_0_ Bacterial wilt (Pseudomonas solanacearum)
_0_ Bacterial speck (Pseudomonas tomato)	Other bacterial disease (specify)
Fungal Diseases:	
_0_ Anthracnose (Colletotrichum spp.)	_1_ Leaf mold, Race 1 (Cladosporium fulvum)
_0_ Brown root rot or corky root (Pyrenochaeta lycopersici)	_1_ Leaf mold, Race 2 (Cladosporium fulvum)
_0_ Collar rot or stem canker (Alternaria solani)	_1_ Leaf mold, Race 3 (Cladosporium fulvum)
_0 Early blight defoliation (Alternaria solani)	_0_ Leaf mold, other races (specify)
_1_ Fusarium wilt, Race 1 (F. oxysporum f. lycopersici)	_0_ Nailhead spot ( <i>Alternaria tomato</i> )
_1_ Fusarium wilt, Race 2 (F. oxysporum f. lycopersici)	_0_ Seporia leafspot (S. lycopersici)
_0_ Fusarium wilt, Race 3 (F. oxysporum f. lycopersici)	_0_ Target leafspot (Corynespora casiicola)
_0_ Gray leaf spot (Stemphylium spp.)	_1_ Verticillium wilt, Race 1 (V. albo-atrum)
_0_ Late blight, Race 0 (Phytophthora infestans)	_2_ Verticillium wilt Race 2
_0_ Late blight, Race 1	_1_ Other fungal disease (specify)Oidium Lycopersicum
Insects and Pests:	
_0_ Colorado potato beetle (Leptinotarsa decemlineata)	_0_ Tomato hornworm (Manduca quinquemaculata)
_0_ Southern root knot nematode (Meloidogyne incognita)	_0_ Tomato fruitworm (Heliothis zea)
_0_ Spider mites ( <i>Tetranychus</i> spp.)	_0_ Whitefly ( <i>Trialeurodes vaporariorum</i> )
_0_ Sugar beet army worm (Spodoptera exigual)	Other (specify)
_0_ Tobacco flea beetle (Epitrix hirtipennis)	
Pollutants:	
Ozone Sulfur dioxide	Other (specify)

10. CHEMISTRY AND COMPOSITION OF FULL-RIPE FRUITS Suggested test methods may be found in "Tomato Products", 5<sup>th</sup> ed., National Canners Assn. Bull. 27-L. Please specify test methods or give a reference to methods used. Fill in table below with values for the new variety and for at lease one well-known check variety of similar type grown in the same trial. Specify names or numbers of check varieties.

	Submitted Variety	Check Variety	Check Variety	Check Variety
рН				
Titratable acidity, as % citric	0,30			
Total solids (dry matter, seeds and skin removed)				
Soluble solids as <sup>o</sup> Brix	5,1			

11. PHENOLOGY Express length of developmental stages either as calendar days or as heat units (growing degree days), in degrees Celsius. If heat units are used, indicate the base temperature used in their calculatoin hear \_\_\_\_\_°C. See paper by Warnock under "References" for method. Give comparative data for at least one check variety; identify checks by name or by number from table on page 1.

for at least one check variety; identify checks by nar				
	Application Variety	Check Variety	Check Variety	Check Variety
Seeding to 50% flow (1 open on 50% of plants)				
Seed to once over harvest (if applicable)				

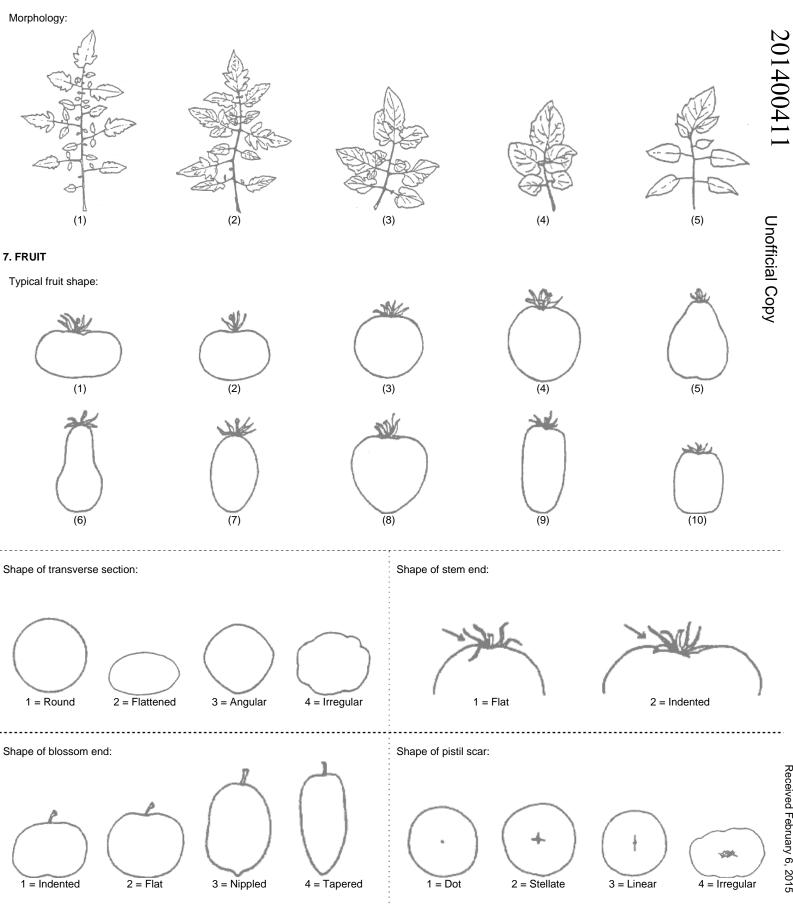
- \_1\_ Fruiting season: 1 = Long ('Marglobe) 2 = Medium ('Westover') 3 = Short, concentrated ('VF 145') 4 = Very concentrated ('UC 82')
- \_2\_ Relative maturity in areas tested: 1 = Early 2 = Medium early 3 = Medium 4 = Medium late 5 = Late 6 = Variable (If relative maturity is known to differ by location or environment, please explain on separate sheet)

12. ADAPTATION If more that one category applies, list all in rank order.

2 Culture: 1 = Field 2 = Greenhouse \_2\_ \_\_\_ Principle use(s): 1 = Home garden 2 = Fresh market 3 = Whole-pack canning 4 = Concentrated products 5 = Other (specify)1\_\_\_ Machine harvest: 1 = Not adapted 2 = Adapted \_3\_ \_10\_ \_11\_ Regions to which adaptation has been demonstrated: 1 = Northeast 2 = Mid Atlantic 3 = Southeast 4 = Florida 5 = Great Plains 7 = Intermountain West 8 = Northwest 9 = California: Sacramento and Upper San Joaquin Valley 6 = South-central 10 = California: Coastal Areas 11 = California: Southern San Joaquin Valley & deserts

### 4. LEAF

### ILLUSTRATIONS OF TOMATO LEAF AND FRUIT CHARACTERISTICS



### REFERENCES

Anonymous, 1976. All About Tomatoes. Ortho Books, Chevron Chemical Co., San Francisco. In three volumes: Midwest/Northeast Edition, West Edition, and South Edition.

- Ware, G.W. & J.P. McCollum, 1968. Producing Vegetable Crops. The Interstate Printer & Publishers, Inc., Danville, Illinois. Chapter 30, pp. 451-473, "Tomatoes".
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Young, P.A. & J.W. MacArthur, 1947. Horticultural characters of tomatoes. Bull. Texas Agric. Exper. Station No. 698..

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE		FOR OFFICIAL USE ONLY PVPO NUMBER	
EXHIBIT E - STATEMENT OF T	HE BASIS OF OWNERSHIP	Second and the second	
1. Name of Owner	2. Temporary Designation or Experimental Name	3. Variety Name	
Enza Zaden Beheer B.V	. E23.34008	Avalantino	
4. Does the applicant own all rights to the variety? Mark a	n "X" in the appropriate block. If no, please explain	YES NO	
5. Is the applicant a U.S. national or a U.S. based entity?	If no, give name of country. YES	NO NO	
The Netherland	S		
6. Is the applicant the original owner?	NO If no, please answer one of t	he following:	
<ul> <li>a. If the original rights to variety were owned by indiving YES</li> <li>b. If the original rights to variety were owned by a congression of YES</li> </ul>	NO If no, give name of country		
7. Additional explanation on ownership (Trace ownership	from original breeder to current owner. Use the rever	se for extra space if needed):	
PLEASE NOTE:			

- 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.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

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