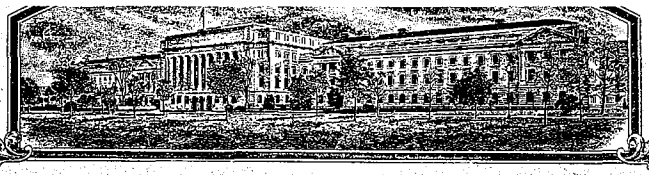
No. 200000294



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

DEKALB Genetics Corporation

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 PURPOSE , 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.)

CORN, FIELD

'01IUL6'

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 sixth day of November, in the year two thousand two.

PLANT VARIETY PROTECTION OFFICE · U.S. DEPARTMENT OF AGRICULTURE

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

of Agriculture

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

Form Approved - OMB No. 0581-0055

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

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

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
DEKALB Genetics Corporation

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME

3. VARIETY NAME
01IUL6

4 ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
3100 Sycamore Road
DeKalb, IL 60115

5. TELEPHONE *(include area code)*
(815) 758-9281

6. FAX *(include area code)*
(815) 758-3117

FOR OFFICIAL USE ONLY

PVPO NUMBER
20000294

FILING DATE
5/17/00

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*
Corporation

8. IF INCORPORATED, GIVE STATE OF INCORPORATION
Delaware

9. DATE OF INCORPORATION
June 15, 1988

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers)*

Timothy R. Kain
DEKALB Genetics Corporation
3100 Sycamore Road
DeKalb, Il 60115

Donald Traut
DEKALB Genetics Corporation
3100 Sycamore Road
DeKalb, IL 60115

FEES RECEIVED

FILING AND EXAMINATION FEES:
$ 2450.00
DATE 6-8-00

CERTIFICATION FEE:
$ 320.00
DATE 11/8/02

11. TELEPHONE *(Include area code)*
(815) 758-9281

12. FAX *(Include area code)*
(815) 758-3117

13. E_MAIL
tkain@dekalb.com

14. CROP KIND *(Common Name)*
Corn

15 GENUS AND SPECIES NAME OF CROP
Zea mays

16. FAMILY NAME *(Botanical)*
Gramineae

17. IS THE VARIETY A FIRST GENERATION HYBRID?
☐ YES ☒ NO

18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)

a. ☒ Exhibit A. Origin and Breeding History of the Variety
b. ☒ Exhibit B. Statement of Distinctness
c. ☒ Exhibit C. Objective Description of Variety
d. ☐ Exhibit D. Additional Description of the Variety *(Optional)*
e. ☒ Exhibit E. Statement of the Basis of the Owner's Ownership
f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)*
g. ☒ Filing and Examination Fee ($2,450), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)*

19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *See Section 83(a) of the Plant Variety Protection Act)*
☐ YES *(If "yes", answer items 20 and 21 below)* ☒ NO *(If "no," go to item 22)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO

21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?
☒ YES U.S. February 2000 ☐ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?
☐ YES ☒ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

24. The owners 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 owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER
Timothy R. Kain

NAME *(Please print or type)*
Timothy R. Kain

CAPACITY OR TITLE
Patent Scientist

DATE 6/6/00

SIGNATURE OF OWNER

NAME *(Please print or type)*

CAPACITY OR TITLE

DATE

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) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties 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; (4) check drawn on a U.S. bank for $2,450 ($300 filing fee and $2,150 examination fee), payable to "Treasurer of the United States" *(See Section 97.6 of the Regulations and Rules of Practice.)* Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, 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 check payable to "Treasurer of the United States" in the amount of $300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: http://www.ams.usda.gov/science/pvp.htm

ITEM

18a. 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

18b. 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 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

18c. 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.

18d. 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.

18e. 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.

19. 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).*

22. *See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.*

23. *See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.*

22. 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.)*

A hybrid produced from this variety was first sold in the United States - February 2000

23. 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).)*

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. There is no charge for filing a change of address. The fee for filing a change of 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.)*

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center–East, Beltsville, MD 20705. Telephone: (301) 504-8089.

S&T-470 (6-98) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (03-96) which is obsolete.

2

EXHIBIT A

Origin and Breeding History
01IUL6

01IUL6 was selected for its greater ear size, much improved grain quality, improved vigor, and greater combining ability.

Summer 1991	The inbred 01IBH2 (a DEKALB Genetics Corporation proprietary inbred) was crossed to inbred line MM501D (a DEKALB Genetics Corporation proprietary inbred) in nursery rows 91:201-79 and 202-46.
Winter 1991-92	The S0 seed was grown and self pollinated in nursery row 1W:M23-21.
Summer 1992	The S1 seed was grown and self pollinated in nursery rows 92:3-92 thru 92:4-85. 94 ears were selected.
Summer 1993	S2 ears were grown ear-to-row and self pollinated. 3 ears were selected in nursery row 93:43-2.
Summer 1994	The S3 ears were grown ear-to-row and self pollinated. In nursery row 94:67-75. 5 ears were selected.
Summer 1995	The S4 ears were grown ear-to-row and self pollinated. 3 ears from nursery row 95:124-10 were selected.
Winter 1995-96	S5 ears were grown ear-to-row and self pollinated. 3 ears from nursery row 5W:6K43-21 were selected.
Summer 1996	The S6 ears were grown ear-to-row and self pollinated. 3 ears were selected from nursery row 96:60-15 and designated coded inbred 01IUL6.
Winter 1996-97	S7 ears were grown ear-to-row and self pollinated. Final selection was made in nursery row 6W:6K34-45.

Statement of Stability and Uniformity

Corn inbred 01IUL6 was coded in the summer of 1996 with final selection made in Winter 1996-97. This inbred has been reproduced by self pollination in the 2 growing seasons and judged to be stable. Inbred 01IUL6 is uniform for all traits observed.

Statement of Variants

01IUL6 shows no variants other than what would normally be expected due to environment or that would occur for almost any character during the course of repeated sexual reproduction.

EXHIBIT B

Statement of Distinctness

DEKALB Genetics Corporation believes that 01IUL6 is most similar to corn inbred MM501D, an inbred developed by DEKALB Genetics Corporation.

01IUL6 and MM501D differ most significantly in the following traits:

Qualitative Traits:

Trait	01IUL6	MM501D
Brace Root Color	Dark	Absent
Eurpean Corn Borer Resistance 1st and 2nd Generations	Resistant rating 6 - 1st rating 7 - 2nd	Susceptible rating 4 rating 3

JMS 3/14/02

The Insect Ratings (European Corn Borer) for '01IUL6' are as follows:

ECB -1st generation = 6
ECB -2nd generation = 7

The Insect Ratings (European Corn Borer) for 'MM501D' are as follows:

ECB -1st generation = 4
ECB -2nd generation = 3

JMS 3/14/02

scale; 1=most susceptible and 9=most resistant

The ratings are taken after infestation from our lab colonies. We use B73 as our susceptible check for inbred tests. For the hybrids we use germplasm similar to B73/MO17 as the check. We use the Guthrie 1-9 leaf feeding index for whorl stage evaluations. One ratings would not show any feeding other than pin-hole damage. A 9 rating would have extensive leaf damage and broken mid-ribs (I reverse the ratings as reported by entomology to conform with the rating scale used in Exhibit C).

The second brood ratings are based on the amount of tunneling relative to the check hybrids. The susceptible check is indexed at seven. The percent of tunneling relative to the check is calculated and a 1 to 9 rating assigned according to a formula. A 1 rating would be 0 to 12% of the check: a 9 rating would be >150% of the check.

FORM SD-470-28
(9-1-92)

EXHIBIT C
(Corn; Maize)

United States Department of Agriculture, Agricultural Marketing Service
Science Division, Plant Variety Protection Office
National Agricultural Library Building, Room 500
Beltsville, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY
CORN (*Zea mays* L.)

Name of Applicant(s)	Variety Seed Source	Variety Name or Temporary Designation
DEKALB Genetics Corporation		01IUL6

Address (Street & No., or R.F.D. No., City, State, Zip Code and Country)	FOR OFFICIAL USE
3100 Sycamore Road, DeKalb, IL 60115 U.S.A.	PVPO Number 2000 0 0294

Place the appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Right justify whole numbers by adding leading zeroes if necessary. Completeness should be striven for to establish an adequate variety description. Traits designated by a '*' are considered necessary for an adequate variety description and must be completed.

COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices; describe #25 and #26 in Comments section):

01=Light Green	06=Pale Yellow	11=Pink	16=Pale Purple	21=Buff
02=Medium Green	07=Yellow	12=Light Red	17=Purple	22=Tan
03=Dark Green	08=Yellow-Orange	13=Cherry Red	18=Colorless	23=Brown
04=Very Dark Green	09=Salmon	14=Red	19=White	24=Bronze
05=Green-Yellow	10=Pink-Orange	15=Red & White	20=White Capped	25=Variegated (Describe)
				26=Other (Describe)

STANDARD INBRED CHOICES (Use the **most similar** (in background and maturity) of these to make comparisons based on **grow-out trial data**):

Yellow Dent Families: Family	Members	Yellow Dent (Unrelated):	Sweet Corn:
		Co109, ND246,	C13, Iowa5125, P39, 2132
B14	CM105, A632, B64, B68	Oh7, T232	
B37	B37, B76, H84	W117, W153R	Popcorn:
B73	N192, A679, B73, NC268	W182BN	SG1533, 4722, HP301, HP7211
C103	Mo17, Va102, Va35, A682		
Oh43	A619, MS71, H99, Va26	White Dent:	Pipecorn:
WF9	W64A, A554, A654, Pa91	CI66, H105, Ky228	Mo15W, Mo16W, Mo24W

1. TYPE: (describe intermediate types in Comments section)

* 2 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamental 7=Pipecorn

Standard Inbred Name MO17
2

2. REGION WHERE DEVELOPED IN THE U.S.A.:

* 2 1=Northwest 2=Northcentral 3=Northeast 4=Southeast 5=Southcentral
6=Southwest 7=Other _____

Standard Seed Source NCRIPS_
2

3. MATURITY (In Region Best Adaptability; show Heat Unit formula in "Comments" section):

	DAYS	HEAT UNITS		
			Application Variety Data	Standard Inbred Data
*	7 4	1 4 8 5. 0	From emergence to 50% of plants in silk	0 6 8 / 1 3 3 5. 0
*	7 3	1 4 7 0. 0	From emergence to 50% of plants in pollen	0 7 5 / ~~2 9 2 6. 0~~ 1507.0
	_ _ _	_ _ _ _. _	From 10% to 90% pollen shed	_ _ _ / _ _ _ _. _
(*)	_ _ _	_ _ _ _. _	From 50% silk to optimum edible quality	_ _ _ / _ _ _ _. _
	_ _ _	_ _ _ _. _	From 50% silk to harvest at 25% moisture	0 9 0 / 1 5 2 9. 0

4. PLANT:	Standard Deviation	Sample Size	Standard Deviation	Sample Size
* 2 2 5. 1 cm Plant Height (to tassel tip)	43.982	60	2 2 4. 7 / 13.790	120
* 0 7 9. 1 cm Ear Height (to base of top ear node)	19.940	60	0 8 4. 8 / 7.592	120
0 1 4. 8 cm Length of Top Ear Internode	2.828	60	0 1 4. 8 / 1.555	120
Average Number of Tillers				
* 1. 1 Average Number of Ears per Stalk	0.141	60	0 0 1. 0 / 0.078	120
4 Anthocyanin of Brace Roots: 1=Absent 2=Faint 3=Moderate 4=Dark			1	

5

2000 0 0294

Application Variety Data	Page 2		Standard Inbred Data		
5. LEAF:	Standard Deviation	Sample Size		Standard Deviation	Sample Size
* 0 0 8. 7 cm Width of Ear Node Leaf	1.556	60	0 0 9. 0	0.721	120
* 0 7 4. 2 cm Length of Ear Node Leaf	3.606	60	0 6 9. 2	3.387	120
* 5. 8 Number of leaves above top ear	0.283	30	5. 1	0.383	50
2 8. 9 degrees Leaf Angle (measure from 2nd leaf above ear at anthesis to stalk above leaf)	2.333	60	3 3. 5	5.875	100
* 0 2 Leaf Color (Munsell code 5 GY 4/8)			0 2 (Munsell code 5 GY 4/8)		
3 Leaf Sheath Pubescence(Rate on scale from 1=none to 9=peach fuzz)			2		
3 Marginal Waves (Rate on scale from 1=none to 9=many)			5		
2 Longitudinal Creases (Rate on scale from 1=none to 9=many)			4		
6. TASSEL:	Standard Deviation	Sample Size		Standard Deviation	Sample Size
* 0 5. 8 Number of Primary Lateral Branches	0.919	60	6. 0	0.640	120
4 4. 8 Branch Angle from Central Spike	29.345	60	4 6. 1	8.382	100
* 4 8. 1 cm Tassel Length (from top leaf collar to tassel tip)	10.748	60	4 7. 1	5.755	120
4. 3 Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed)			4. 3		
0 5 Anther Color (Munsell code 2.5 GY 8/6)			0 5 (Munsell code 2.5 GY 8/6)		
0 2 Glume Color (Munsell code 5 GY 4/8)			0 2 (Munsell code 5 GY 4/8)		
1 Bar Glumes (Glume Bands): 1=Absent 2=Present			1		
7a. EAR (Unhusked Data):					
* 0 5 Silk Color (3 days after emergence) (Munsell code 2.5 GY 8/6)			1 1 (Munsell code 2.5 R 7/6)		
0 2 Fresh Husk Color (25 days after 50% silking) (Munsell code 5 GY 4/8)			0 2 (Munsell code 5 GY 4/8)		
2 1 Dry Husk Color (65 days after 50% Silking) (Munsell code 2.5 Y 8/4)			2 1 (Munsell code 2.5 Y 8/4)		
* 3 Position of Ear at Dry Husk Stage: 1=Upright 2=Horizontal 3=Pendent			1		
4 Husk Tightness (Rate on scale from 1=very loose to 9=very tight)			4		
1 Husk Extension (at harvest): 1=Short (ears exposed) 2=Medium (<8 cm) 3=Long (8-10 cm beyond ear tip) 4=Very Long (>10 cm)			1		
7b. EAR (Husked Ear Data):	Standard Deviation	Sample Size		Standard Deviation	Sample Size
* 1 3. 1 cm Ear Length	0.071	30	1 8. 6	1.835	60
* 4 3. 0 mm Ear Diameter at mid-point	1.414	30	3 5. 3	1.638	60
1 0 6. 7 gm Ear Weight	7.495	60	1 0 4. 3	23.000	120
* 1 6 Number of Kernel Rows	0.566	30	1 1	0.599	60
2 Kernel Rows: 1=Indistinct 2=Distinct			2		
2 Row Alignment: 1=Straight 2=Slightly Curved 3=Spiral			2		
1 1. 6 cm Shank Length	2.758	60	1 3. 1	2.795	120
2 Ear Taper: 1=Slight 2=Average 3=Extreme			2		

Application Variety Data	Standard Inbred Data

Note: Use chart on first page to choose color codes for color traits.

2000 0 0294

Application Variety Data	Page 3		Standard Inbred Data		
8. KERNEL (Dried):	Standard Deviation	Sample Size		Standard Deviation	Sample Size
1 1. 4 mm Kernel Length	0.495	30	1 0. 5	0.715	60
0 8. 5 mm Kernel Width	0.071	30	0 8. 5	0.525	60
0 4. 6 mm Kernel Thickness	0.000	30	0 4. 4	0.339	60
2 0. 9 % Round Kernels (Shape Grade)		500g	3 1. 7		500g
1 Aleurone Color Pattern: 1=Homozygous 2=Segregating			1		
(*) 1 9 Aleurone Color (Munsell code Lighter than 2.5 Y 9/2)			1 9 (Munsell code Lighter Than 2.5 Y 9/2)		
* 0 7 Hard Endosperm Color (Munsell code 2.5 Y 8/10)			0 7 (Munsell code 2.5 Y 8/10)		
* 0 3 Endosperm Type: 1=Sweet (su1) 2=Extra Sweet (sh2) 3=Normal Starch 4=High Amylose Starch 5=Waxy Starch 6=High Protein 7=High Lysine 8=Super Sweet (se) 9=High Oil 10=Other			0 3		
2 6. 0 gm Weight per 100 Kernels (unsized sample)	1.166	600 seeds	2 9. 5	3.826	1200 seeds
9. COB:	Standard Deviation	Sample Size		Standard Deviation	Sample Size
* 2 5. 0 mm Cob Diameter at mid-point	0.000	30	1 8. 5	1.460	60
1 4 Cob Color (Munsell code 5 R 3/8)			1 4 (Munsell code 5 R 3/8)		

10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic):

A. Leaf Blights, Wilts, and Local Infection Diseases	
7 Anthracnose Leaf Blight (*Colletotrichum graminicola*)	8
_ Common Rust (*Puccinia sorghi*)	7
_ Common Smut (*Ustilago maydis*)	
8 Eyespot (*Kabatiella zeae*)	7
6 Goss's Wilt (*Clavibacter michiganense* spp. *nebraskense*)	8
5 Gray Leaf Spot (*Cercospora zeae-maydis*)	6
7 Helminthosporium Leaf Spot (*Bipolaris zeicola*) Race 2	8 Race 2
6 Northern Leaf Blight (*Exserohilum turcicum*) Race 2	8 Race 2
7 Southern Leaf Blight (*Bipolaris maydis*) Race 0	8 Race 0
_ Southern Rust (*Puccinia polysora*)	
6 Stewart's Wilt (*Erwinia stewartii*)	5
_ Other (Specify) _____	– _____
B. Systemic Diseases	
1 Corn Lethal Necrosis (MCMV and MDMV)	5
_ Head Smut (*Sphacelotheca reiliana*)	8
_ Maize Chlorotic Dwarf Virus (MCDV)	
_ Maize Chlorotic Mottle Virus (MCMV)	
_ Maize Dwarf Mosaic Virus (MDMV) Strain _____	4 Strain _____
_ Sorghum Downy Mildew of Corn (*Peronosclerospora sorghi*)	–
_ Other (Specify) _____	– _____
C. Stalk Rots	
_ Anthracnose Stalk Rot (*Colletotrichum graminicola*)	–
_ Diplodia Stalk Rot (*Stenocarpella maydis*)	–
_ Fusarium Stalk Rot (*Fusarium moniliforme*)	–
_ Gibberella Stalk Rot (*Gibberella zeae*)	–
_ Other (Specify) _____	– _____
D. Ear and Kernel Rots	
_ Aspergillus Ear and Kernel Rot (*Aspergillus flavus*)	–
_ Diplodia Ear Rot (*Stenocarpella maydis*)	–
_ Fusarium Ear and Kernel Rot (*Fusarium moniliforme*)	–
_ Gibberella Ear Rot (*Gibberella zeae*)	–
_ Other (Specify) _____	– _____

Application Variety Data	Standard Inbred Data

Note: Use chart on first page to choose color codes for color traits.

2000 0 0294

Application Variety Data	Page 4		Standard Inbred Data		
11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested):					
	Standard Deviation	Sample Size		Standard Deviation	Sample Size
_ Banks Grass Mite (*Oligonychus pratensis*)			_		
Corn Earworm (*Helicoverpa zea*)					
_ Leaf-Feeding			_		
Silk Feeding :					
_ _ _. _ mg larval wt.	_____	_____	_ _ _. _	_____	_____
_ Ear Damage			_		
_ Corn Leaf Aphid (*Rhopalosiphum maidis*)			_		
_ Corn Sap Beetle (*Carpophilus dimidiatus*)			_		
European Corn Borer (*Ostrinia nubilalis*)					
6 1st Generation (Typically Whorl Leaf Feeding)			3		
7 2nd Generation (Typically Leaf Sheath-Collar Feeding)			5		
Stalk Tunneling :					
_ _ _. _ cm tunneled/plant	_____	_____	_ _ _. _	_____	_____
Fall Armyworm (*Spodoptera frugiperda*)			_		
_ Leaf-Feeding			_		
_ Silk-Feeding :					
_ _ _. _ mg larval wt.	_____	_____	_ _ _. _	_____	_____
_ Maize Weevil (*Sitophilus zeamaize*)			_		
_ Northern Rootworm (*Diabrotica barberi*)			_		
_ Southern Rootworm (*Diabrotica undecimpunctata*)			_		
Southwestern Corn Borer (*Diatraea grandiosella*)					
_ Leaf Feeding			_		
Stalk Tunneling :					
_ _ _. _ cm tunneled/plant	_____	_____	_ _ _. _	_____	_____
_ Two-spotted Spider Mite (*Tetranychus urticae*)			_		
_ Western Rootworm (*Diabrotica virgifera virgifera*)			_		
_ Other (Specify) _____			_ _____		
12. AGRONOMIC TRAITS:					
8 Stay Green (at 65 days after anthesis) (Rate on a scale from 1=worst to 9=excellent.)			8		
0 0. 0 % Dropped Ears (at 65 days after anthesis)			0 0. 0		
0 0. 0 % Pre-anthesis Brittle Snapping			0 0. 0		
0 0. 0 % Pre-anthesis Root Lodging			0 0. 9		
0 0. 2 % Post-anthesis Root Lodging (at 65 days after anthesis)			0 0. 0		
3 8 6 3. 9 Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture)			3 3 6 5. 9		

13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied)

1 Isozymes 0 RFLP's 0 RAPD's

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Sprague, G.F., and J.W. Dudley (Editors). 1988. Corn and Corn Improvement, Third Edition. Agronomy Monograph 18. ASA, CSSA, SSSA, Madison, WI.
Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S., Bul. 831. 1959.
U.S. Department of Agriculture. 1936, 1937. Yearbook.

COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D):

Heat Unit Calculation: $GDU = \frac{\text{Daily Max Temp } (<=86°F) + \text{Daily Min Temp } (>=50°F)}{2} - 50°F$

- data collected for 'MO17' occurred at 4 test locations over 5 years for a total sample size of 120 plants measured. Data was reported as means across years and locations. Each of the aforementioned characteristics had a wide range of values due to spacial and temporal variation of the test contributing to the large standard deviation. Growing conditions (soil, climate, drought conditions, etc.) contributed significantly to influence the variability of the traits measured.

JMD 1/11/02

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

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 APPLICANT(S)

DEKALB Genetics Corporation

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

3. VARIETY NAME

01IUL6

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*

3100 Sycamore Road
DeKalb, IL 60115
U.S.A.

5. TELEPHONE *(include area code)*

(815) 758-9281

6. FAX *(include area code)*

(815) 758-3117

7. PVPO NUMBER

20000296

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

9. Is the applicant (individual or company) a U.S. national or U.S. based company? [X] YES [ ] NO
If no, give name of country

10. Is the applicant the original owner? [X] YES [ ] NO *If no, please answer one of 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(ies), is(are) 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)*:

01IUL6 was originated and developed by a breeder employed by DEKALB Genetics Corporation. By agreement between DEKALB Genetics Corporation and the breeder, all rights to any invention, discovery, or development are assigned to DEKALB Genetics Corporation. No rights to such invention, discovery, or development are retained by the breeder.

PLEASE NOTE:

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

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

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

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