



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

October 24, 2006

Docket No. 03032126  
Control No. 139520

License No. 06-28624-01

John P. Purcell, Ph.D.  
Mystic Site Lead  
DEKALB Genetics Corporation  
Mystic Research Center  
62 Maritime Drive  
Mystic, CT 06355-1958

SUBJECT: DEKALB GENETICS CORPORATION, LICENSE AMENDMENT, CONTROL  
NO. 139520

Dear Dr. Purcell:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Toolkit Index Page**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

J. Purcell  
DEKALB Genetics Corporation

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Thank you for your cooperation.

Sincerely,

***Original signed by Steven Courtemanche***

Steven Courtemanche  
Health Physicist  
Commercial and R&D Branch  
Division of Nuclear Materials Safety

Enclosure:  
Amendment No. 11

cc:  
Christopher Bonin, Ph.D., Radiation Safety Officer

J. Purcell  
DEKALB Genetics Corporation

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**SUNSI Review Complete: SCourtemanche**

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NAME	SCourtemanche/src							
DATE	10/24/2006							

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**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with the letter dated October 2, 2006,
1. DEKALB Genetics Corporation Mystic Research Center	3. License No. 06-28624-01 is amended in its entirety to read as follows:
2. 62 Maritime Drive	4. Expiration Date: May 31, 2012
Mystic, Connecticut 06355-1958	5. Docket No. 030-32126

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Hydrogen 3	A. Any	A. 10 millicuries
B. Carbon 14	B. Any	B. 10 millicuries
C. Phosphorus 32	C. Any	C. 120 millicuries
D. Phosphorus 33	D. Any	D. 90 millicuries
E. Sulfur 35	E. Any	E. 25 millicuries

## 9. Authorized use:

A. through E. Research and development as defined in 10 CFR 30.4.

**CONDITIONS**

10. Licensed material may be used or stored only at the licensee's facilities located at Mystic Research Center, 62 Maritime Drive, Mystic, Connecticut.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License No.  
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11. Licensed material shall be used by, or under the supervision of, Thomas R. Adams, Robert Bensen, Paul S. Chomet, Jacqueline Heard, Brenda Lowe, Quiang Zhang, Donald Nelson, Thomas Malvar, Ph.D., or Christopher Bonin, Ph.D.
12. The Radiation Safety Officer (RSO) for this license is Christopher Bonin, Ph.D.
13. Licensed material shall not be used in or on human beings except as provided otherwise by specific condition of this license.
14. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
15. The licensee is authorized to hold radioactive material with a physical half-life of less than 120 days for decay-in-storage before disposal without regard to its radioactivity if it:
  - A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
  - B. Removes and obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and
  - C. Maintains records of the disposal of licensed material for three years. The record must include the date of the disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.
16. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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17. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U. S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated March 28, 2002 [ML021050030]
- B. Letter dated May 9, 2002 [ML021330133]
- C. Letter dated August 21, 2002 [ML022460131]



For the U. S. Nuclear Regulatory Commission

Date October 24, 2006

By

***Original signed by Steven Courtemanche***

Steven Courtemanche  
Commercial and R&D Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406