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REGION I

REACTION

BIOLOGY CORP.

2007 FEB -5 PM 1:36

Matthew Oristano
Chairman
matt@reactionbiology.com

January 31, 2007

nm582

Attention: LAT
Division of Nuclear Materials Safety
U.S. NRC
Region I
475 Allendale Road
King of Prussia, PA 19406

Subject: Reaction Biology Corp. *03037093*
Request to Increase Authorized License Limits
NRC License No. 37-31106-01
IES Project No. EHS06672.01

To Whom It May Concern:

Reaction Biology Corp. (Reaction Biology) of Malvern, Pennsylvania, NRC License No. 37-31106-01, would like to request the addition of ^{14}C and ^3H to our license as outlined below.

a. Element and Mass Number	b. Chemical and/or physical form	c. Maximum amount to be possessed at any one time
Carbon 14 (^{14}C)	bound/non-volatile	50 millicuries
Tritium (^3H)	bound/non-volatile	100 millicuries

Reaction Biology is requesting the addition of ^{14}C and ^3H to allow us to service additional clients. The purpose(s) for which licensed material will be used will remain the same and we do not expect existing staff exposure to increase from the addition of these isotopes to the license. (Actually, considering to the very low energy of ^3H and ^{14}C employee exposure may decrease.) We are prepared to properly store and dispose of any long half-life waste generated.

As we have potential customer interested in our ability to perform their assay with ^3H or ^{14}C right now, we would appreciate your prompt attention to our request.

Should you have any questions regarding this request, please feel free to contact Ms. Jessica Leonard of IES Engineers at 610-828-3078. If not, we look forward to receiving an updated version of our license.

Sincerely,

A handwritten signature in black ink, appearing to read "M Oristano". The signature is fluid and cursive, with the first letter "M" being particularly large and stylized.

Matthew Oristano
Chairman

cc: H. Ma, Reaction Biology
J. Leonard, IES

ITEM 1
THIS IS AN APPLICATION FOR
B. Amendment to License Number 37-31129-01

ITEM 2
NAME AND ADDRESS OF APPLICANT (INCLUDE ZIP CODE)
Reaction Biology Corp.
One Great Valley Parkway
Suite 8
Malvern, PA 19355

ITEM 3
ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED
One Great Valley Parkway
Suite 8
Malvern, PA 19355

ITEM 4
NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION
Haiching Ma, Ph.D. or Ms. Jessica Leonard (IES Engineers)

TELEPHONE NUMBER
610-722-0247 (Jessica Leonard office 610-828-3078)

ITEM 5
RADIOACTIVE MATERIAL

a. Element and Mass Number	b. Chemical and/or physical form	c. Maximum amount to be possessed at any one time
Phosphorus 32	bound/non-volatile	100 millicuries
Phosphorus 33	bound/non-volatile	100 millicuries
Hydrogen 3	bound/non-volatile	100 millicuries
Carbon 14	bound/non-volatile	50 millicuries

ITEM 6
PURPOSE(S) FOR WHICH LICENSE MATERIAL WILL BE USED
Reaction Biology Corporation uses a patent-pending mix of established technologies to perform High Throughput Screening at the nanoliter scale, while preserving quality, speed and simplicity. Radioactive materials will be used for high throughput screening in accordance with the amounts, forms and purposes described above. Animal studies will not be conducted.

This is to acknowledge the receipt of your letter/application dated

11/28/2007, and to inform you that the initial processing which includes an administrative review has been performed.

Amend. 37-3106-00
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 140052.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.