

MOLECULON



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RESEARCH CORP.

June 13, 1985

MS 16
P3

Dr. John Miller
Nuclear Materials Safety Section B
United States Nuclear Regulatory Commission
Region One
631 Park Avenue
King of Prussia, PA 19406

Dear Dr. Miller:

I am writing specifically to outline Moleculon's intention of instituting a bioassay program for tritium. Our tritium urinalysis will follow the guidelines on pages 5-9 of the "Applications of Bioassays for Tritium." All employees using any radioactivity, including tritium, will first do a urinalysis before using any radioactivity and then will be required to do additional urinalyses during periods when any isotopes are being used. When an employee ceases to use radioactivity, within one month of cessation, a urinalysis will be conducted. The results of all tests will be kept in the personnel office with the individual's employment record.

All urine samples will be counted on an LKB 1219 scintillation counter. This liquid scintillation counter reports all results in dpm's. The typical efficiency of counting unquenched tritium for our counter is 62%. In addition, a spectrum of the isotope is generated in order to distinguish between different isotopes such as tritium, carbon-14, sulfur 35, etc.

Thank you for your help in advising Moleculon on setting up the bioassay program.

Sincerely,

Larry Brown

Larry Brown Sc.D.
Senior Scientist

LRB /cgl

8507250151 850626
REG1 LIC30
20-07896-01 PDR

03818

"OFFICIAL RECORD COPY"

RESEARCH • DEVELOPMENT • ENGINEERING

ML10

JUN 18 1985

CONVERSATION RECORD

TIME

8:40

DATE

6/13/85

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

ORGANIZATION (Office, dept., bureau, etc.)

TELEPHONE NO.

Larry R. Brown

Moleculon Res. Corp.

617
547-2353

SUBJECT

Request to amend lic # 20-07896-01

ROUTING

NAME/SYMBOL

INT

SUMMARY

Miller phoned L. Brown and requested that he state clearly the type of bioassay program that Moleculon Res. Corp plans to implement

L. Brown agreed to submit a letter and summarize his plans

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ML18

ACTION REQUIRED

See summary

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

John J Miller

John J Miller

6/13/85

ACTION TAKEN

SIGNATURE

TITLE

DATE