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NRC FORM 591M PART 1  
(10-2003)  
10 CFR 2.201

U.S. NUCLEAR REGULATORY COMMISSION

### SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: <i>Sigma-Aldrich Company</i> <i>St. Louis, MO</i> REPORT <i>2005-001</i>	2. NRC/REGIONAL OFFICE U.S. Nuclear Regulatory Commission Region III 2443 Warrenville Road Suite 210 Lisle, Illinois 60532-4351
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3. DOCKET NUMBER(S) <i>030-10716</i>	4. LICENSEE NUMBER(S) <i>24-16273-01</i>	5. DATE(S) OF INSPECTION <i>Sept. 29-30, 2005</i>
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**LICENSEE:**  
 The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Nuclear Regulatory Commission (NRC) rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The inspection

- 1. Based on the inspection findings, no violations were identified.
- 2. Previous violation(s) closed.
- 3. The violation(s), specifically described to you by the inspector as non-cited violations, are not being cited because they were self-identified, non-repetitive, and corrective action was or is being taken, and the remaining criteria in the NRC Enforcement Policy, NUREG-1600, to exercise discretion, were satisfied.

\_\_\_\_\_ Non-Cited Violation(s) was/were discussed involving the following requirement(s) and Corrective Action(s):

- 4. During this inspection certain of your activities, as described below and/or attached, were in violation of NRC requirements and are being cited. This form is a NOTICE OF VIOLATION, which may be subject to posting in accordance with 10 CFR 19.11.

(Violations and Corrective Actions)

**Licensee's Statement of Corrective Actions for Item 4, above.**

I hereby state that, within 30 days, the actions described by me to the inspector will be taken to correct the violations identified. This statement of corrective actions is made in accordance with the requirements of 10 CFR 2.201 (corrective steps already taken, corrective steps which will be taken, date when full compliance will be achieved). I understand that no further written response to NRC will be required, unless specifically requested.

Title	Printed Name	Signature	Date
LICENSEE'S REPRESENTATIVE			
NRC INSPECTOR	Deborah A. Piskura	<i>D. Piskura</i>	9/30/05

**Docket File Information****SAFETY INSPECTION REPORT  
AND COMPLIANCE INSPECTION**

1. LICENSEE <b>Sigma-Aldrich Company</b> REPORT NUMBER(S) <b>2005-001</b>		2. NRC/REGIONAL OFFICE <b>Region III</b> <b>2443 Warrenville Road</b> <b>Lisle, IL 60532</b>	
3. DOCKET NUMBER(S) 030-10716		4. LICENSE NUMBER(S) 24-16273-01	
5. DATE(S) OF INSPECTION September 29-30, 2005			
6. INSPECTION PROCEDURES USED 87126		7. INSPECTION FOCUS AREAS 03.01, 03.02, 03.03, 03.04, 03.05, 03.06, and 03.07	

**SUPPLEMENTAL INSPECTION INFORMATION**

1. PROGRAM 03610	2. PRIORITY E1A 3	3. LICENSEE CONTACT Dennis Warner, RSO	4. TELEPHONE NUMBER 1.800.521.8956
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<input checked="" type="checkbox"/> Main Office Inspection	Next Inspection Date: <u>September 2008</u>
<input type="checkbox"/> Field Office _____	
<input type="checkbox"/> Temporary Job Site _____	

**PROGRAM SCOPE**

This licensee was a speciality chemical manufacturer employing 4 employees at its Saint Louis Laboratory. The licensee was authorized to use C-14 and H-3 for R&D and for processing and labeling specialty compounds used by research and development institutions. Note that the licensee distributed these products under the authorization of a separate license. Four individuals were authorized to use RAM.

This inspection consisted of a tour of the lab, the radioactive waste storage areas and the material storage room; review of select records; interviews with licensee staff; observations of experiment set-ups and synthesis procedures in progress.