

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES  
SAFETY EVALUATION OF DEVICE

NO: MA-8154-D-803-B  
(Supersedes NR-0143-D-103-B)

DATE: September 27, 2004

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DEVICE TYPE: X-Ray Fluorescence Analyzer

MODEL: Lab-X 1000 Series (Models 1001, 1002, 1004, 1005, 1006, 1009, and 1011)

DISTRIBUTOR: Oxford Instruments America, Inc.  
130A Baker Avenue Extension  
Concord, MA 01742  
  
(Formerly Analytical Marketing Inc.  
One Dundee Park  
Andover, MA 01210)

MANUFACTURER: Oxford Analytical Instruments, Ltd.  
20 Nuffield Way  
Abingdon, Oxon OX14 1TX, England

SEALED SOURCE MODEL DESIGNATION: Amersham Corp. Models IEC.L1, CUC.D1,  
CLCL, or AMC.D2

<u>ISOTOPE:</u>	<u>MAXIMUM ACTIVITY</u>
Iron-55	20 millicuries (740 MBq) - IEC.L1 source
Cadmium-109	3 millicuries (111 MBq) - CUC.D1 source
Curium-244	30 millicuries (1.11 GBq) - CLCL source
Americium-241	10 millicuries (370 MBq) - AMC.D2 source

LEAK TEST FREQUENCY: 24 months

PRINCIPAL USE: (U) X-Ray Fluorescence

CUSTOM DEVICE: YES \_\_\_ NO X

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DEVICE TYPE: X-Ray Fluorescence Analyzer

DESCRIPTION:

Refer to SS&D Registration No. MA-0143-D-802-B.

LABELING:

Refer to SS&D Registration No. MA-0143-D-802-B.

DIAGRAM:

Refer to SS&D Registration No. MA-0143-D-802-B.

CONDITIONS OF NORMAL USE:

Refer to SS&D Registration No. MA-0143-D-802-B.

PROTOTYPE TESTING:

Refer to SS&D Registration No. MA-0143-D-802-B.

EXTERNAL RADIATION LEVELS:

Refer to SS&D Registration No. MA-0143-D-802-B.

QUALITY ASSURANCE AND CONTROL:

Refer to SS&D Registration No. MA-0143-D-802-B.

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE:

Refer to SS&D Registration No. MA-0143-D-802-B.

SAFETY ANALYSIS SUMMARY:

This Registration supersedes Registration No. NR-0143-D-103-B dated August 4, 1987. The Lab-X 1000 Series (Models 1001, 1002, 1004, 1005, 1006, 1009, and 1011) devices were combined with Registration No. NR-0143-D-102-B on June 24, 1993. Registration No. NR-

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DEVICE TYPE: X-Ray Fluorescence Analyzer

SAFETY ANALYSIS SUMMARY (Cont'd):

0143-D-102-B was subsequently superseded by MA-0143-D-802-B. Refer to SS&D Registration No. MA-0143-D-802-B.

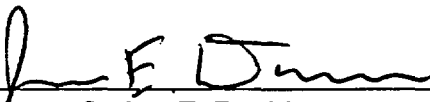
REFERENCES:

Refer to SS&D Registration No. MA-0143-D-802-B.

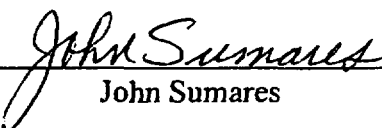
ISSUING AGENCY:

Massachusetts Department of Public Health  
Radiation Control Program

Date: 09/27/04

Reviewer:   
Joshua E. Daehler

Date: 9/27/04

Concurrence:   
John Sumares