

RSA LABORATORIES

A Division of Radiation Safety Associates, Inc.

W-100 Sealed-Source Leak Test Kit

SAMPLE DOCUMENTATION AND REPORT OF RESULTS

Company Name:	Radioactive Materials License #:	
Company Address:		
Person to be contacted:	Phone:	Fax:

For the source being leak tested:

Source Manufacturer:	Source Model No:
Person performing wipe test:	Source Serial No:
How often must this Leak Test be performed?	Date Leak Test Performed:
Source Isotope:	Source Quantity:

Return these samples, and this data sheet in an envelope or package marked **LEAK TEST ENCLOSED** to:

RSA Laboratories
21 Pendleton Drive, P.O. Box 61
Hebron, CT 06248

If you have any questions about how to perform this sample procedure, call
RSA Laboratories at (860) 228-0721.

SEALED SOURCE LEAK TEST CERTIFICATION

This is to certify that a leak test performed on the above-named source indicates the presence of _____ μ Ci of

SAMPLE ANALYSIS RESULTS

Total cpm	Background cpm	Efficiency	dpm	Total Activity (μ Ci)

Person Performing the Analysis:	Date of Analysis:
	MDA:

INSTRUCTIONS FOR USING THE RSA LABORATORIES W-100 LEAK TEST KIT

FIRST: Completely fill in all the information requested on the enclosed documentation and report sheet.

SECOND: SELECT THE SURFACE TO BE SURVEYED

CAUTION

DO NOT ATTEMPT to rub the enclosed cotton swabs directly on the sealed source capsule or disk. This might cause excessive and unnecessary personnel radiation exposure and could possibly damage the source.

The site selected for the test should be an area **NEAR** where the source is located when not in its shielded housing. This could be the outside of a shutter, a shutter operating arm, or a tube through which the source passes. **DO NOT** disassemble the source housing. The surface area wiped should be representative of where, if the source were leaking, the contamination would be likely to end up. The area covered by the wipe survey should be as large as is necessary to sample all potential points of leakage.

INSTRUCTIONS FOR USE

1. Open the vial that contains some powdered EDTA. Using warm water, fill the vial 2/3 of the way. Replace the lid and shake the vial until the EDTA dissolves.
2. Take one of the enclosed cotton swabs and dip it into the water solution. Remove most of the excess water by rubbing the swab on the lip of the vial. The swab should just be **DAMP**, not saturated.
3. Rub the damp swab over the areas you have selected for the wipe test. Place the end of the swab in the plastic bag marked **WET**, grasp the cotton portion through the bag, and break the wooden stick just above the cotton end. Seal the cotton end in the bag and discard the stick.
4. Take the second cotton swab. Keeping this swab **DRY**, rub it over the same areas that you rubbed the damp swab over. Place the second swab in the plastic bag marked **DRY**, grasp the cotton portion through the bag, and break the wooden stick just above the cotton end. Seal the cotton end in the bag and discard the stick.
5. Fill in all the required information on the top half of the enclosed report form.
6. **DISCARD** the plastic vial after use.
7. Return the samples and information sheet to **RSA Laboratories**. If you have any questions, contact **RSA Laboratories** at (860)228-0721.
8. Please mark the outside of your envelope or package with **LEAK TEST ENCLOSED** when you return the contents to be analyzed.