

**Training Record--Electron Capture Detectors  
(components of gas chromatographs)**

1. Radiation Control Office (RCO) approval is required to purchase an electron capture detector (ECD) whether purchased separately or mounted on a gas chromatograph (GC).
2. If the ECD is mounted on a GC, the ECD may be delivered to the point of use at the direction of the Radiation Control Office (RCO); however, the source information and delivery notification must be given to the RCO.
3. All electron capture detectors (ECD) must be shipped to:  
University of Arizona  
Medical Receiving  
Drachman St at Warren Avenue  
Tucson, AZ 85724

RCO staff will deliver the ECD to the Approval Holder purchasing the unit.

4. All ECDs must be registered with the RCO, which will maintain an inventory of ECDs even if they are generally licensed.
5. Each source must be assigned to a Radioactive Materials Approval, with a designated authorized use location. The RCO will conduct a physical inventory of all ECDs every six months and perform a leak test as required. The RCO will maintain records of these physical inventories and leak tests. When a leak test result is above acceptable limits, the RCO will notify users, remove the ECD from service, and make the required notifications.
6. Do **not** change the location of a sealed source without first notifying the RCO.
7. Do not remove from the ECD the GC for cleaning, except upon prior arrangement with the RCO. If the ECD must be sent to the manufacturer or another vendor for repair or cleaning, contact the RCO to arrange transport of the unit.
8. Each GC with an ECD must be labeled with the words "**CAUTION: RADIOACTIVE MATERIAL**", the radioisotope and activity of the source and the following notice, or words having similar intent:

"This equipment contains a radioactive source registered with the University of Arizona Radiation Control Office. Please notify the RCO before removing the source equipment from this area, or upon any change in custodial responsibility."

9. Individuals using radioactive components in the GC may be required to vent the cell exhaust to a scrubber or fume hood to avoid contamination of the work area from the release of radioactive tagged samples introduced into the system. Contact RCO if this is a potential concern.

I have read and understand the above information and have been instructed by personnel familiar with the equipment as to the specific operation of each unit that I may be required to use.

\_\_\_\_\_  
Printed Name of Trainee

\_\_\_\_\_  
Signature of Trainee

\_\_\_\_\_  
Date Trained

\_\_\_\_\_  
Printed Name of Trainer

\_\_\_\_\_  
Signature of Trainer

\_\_\_\_\_  
Approval No.

For RCO USE ONLY – Not for DISTRIBUTION