

# RPR 12C. I-125 THYROID MONITORING REPORT

Name: \_\_\_\_\_ Soc. Sec. No. \_\_\_\_\_ UNID \_\_\_\_\_

**Instructions:** Record successive counts for one individual as long as the same instrument is used and the calibration is still valid. Use the same counting time for all counts.

**Instrument and calibration data:**

Scaler - model: \_\_\_\_\_ Ser. No. \_\_\_\_\_

Detector - model: \_\_\_\_\_ Ser. No. \_\_\_\_\_

Calibration date: \_\_\_\_\_ I-129 source activity (A) = \_\_\_\_\_  $\mu$ Ci

Count time (t) = \_\_\_\_\_ min or sec Net counts in phantom (C) = \_\_\_\_\_ counts

I-125 efficiency =  $0.00189 \times C(\text{counts}) / A(\mu\text{Ci}) =$  \_\_\_\_\_ net counts/nCi I-125 in time t

(1.462 I-125 photons of 27.5-35.5 keV/dis) / (0.775 I-129 photons of 29.5-39.6 keV/dis) (1,000 nCi/ $\mu$ Ci) = 0.00189

**Screening assay data:**

<u>Date</u>	<u>Elapsed Interval (weeks)</u>	<u>Verif. Level (nCi)</u>	<u>Phantom Counts</u>			<u>Thyroid Data</u>			<u>Counted By</u>
			<u>I-129 (counts)</u>	<u>Bkgd. (counts)</u>	<u>Net (counts)</u>	<u>Gross (counts)</u>	<u>Net (counts)</u>	<u>(nCi)</u>	
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
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_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

Submit the form for filing after the above spaces have been filled, or after one verification assay has been recorded, or at the end of the calendar year, whichever comes first.

**Verification assay data:**

If screening assay exceeds the verification level, make a measurement on the thigh to determine contribution from blood pool. Use the thigh measurement as the background to determine net activity in thyroid:

$$\frac{(\text{Total counts from thyroid}) - (\text{Total counts from thigh})}{(\text{Efficiency, net counts per nCi})} = \text{_____ nCi}$$

If the verification assay result does not exceed the investigation level, submit the form although no further action is required. If the investigation level is exceeded, report to the RSO and initiate an investigation.

**Reviewed by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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