

IAEA TRIC2012 REGISTRATION FORM

Please use this form to register for the TRIC2012 intercomparison. Complete the required fields, save the file, and email it to tric@iaea.org.

YOUR NAME & SHIPPING ADDRESS

First Name:

Last Name:

Institute or Organization:

Street Address:

City:

State/Province:

Country:

Postal code:

Telephone:

Fax:

Email:

Do you wish to receive the high activity sample?

Do you agree to return results within 3 months of receipt of samples?

Remarks:

QUESTIONS FOR ALL LABORATORIES

What is your primary standard provider and type (e.g., NIST, SRM 4927)?

What is the activity of your working calibration standard (e.g., SRM 4927 diluted to 10 TU)?

What tritium half-life do you use for calculations (e.g., 4500 days, 12.32 years)?

QUESTIONS FOR LIQUID SCINTILLATION COUNTING LABORATORIES

Do you utilize liquid scintillation counting?

What analytical instrument do you use (e.g., Quantalus 1220, TRICARB 3170SL)?

What is your typical sample size (before enrichment)?

If you enrich, what is the final sample volume (after enrichment, before adding scintillation cocktail)?

What LSC cocktail do you use (e.g., Ultima Gold LLT)?

What volume of LSC cocktail do you use?

What is your background count rate (counts per minute)?

What is your typical minimum tritium detection limit (in units of TU)?

What is your typical one sigma uncertainty margin for a one liter 5 TU sample?

Approximately how many samples do you measure per year?

QUESTIONS FOR GAS PROPORTIONAL COUNTING LABORATORIES

Do you utilize gas proportional counting?

What is your typical sample size (before enrichment)?

If you enrich, what is the final sample size (if you do NOT enrich, please answer "no")?

What gas do you use for decay counting (type of gas and sample size used)?

What is your current background count rate (counts per minute)?

What is your typical minimum tritium detection limit (in units of TU)?

What is your typical one sigma uncertainty margin for a one litre 5 TU sample?

How many samples do you measure per year?

QUESTIONS FOR HELIUM INGROWTH LABORATORIES

Do you utilize ^3He ingrowth and mass spectrometry?

What mass spectrometer(s) do you use for helium ingrowth?

What is your typical background count rate (at mass 3)?

What is your typical water sample size (in millilitres)?

What is your typical accumulation time (in days)?

What is your method for degassing water samples (briefly describe or provide a citation/weblink)?

What is your typical minimum tritium detection limit?

What is your typical one sigma uncertainty margin for a one litre 5 TU sample?

How many samples do you measure per year?



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