



Radiation Bioassay Guidelines

Bioassays are performed to monitor internal exposures to radioactive materials. The table below lists recommended levels for the more popular isotopes. If you use this amount (activity) of a radionuclide in one month, contact the RPO for more information about bioassays.

Isotope	Physical Form	Recommended Bioassay Level (mCi/month/person)	Type of Bioassay
^{14}C	Liquid	1,700	Urine sample
^3H	Liquid	670	Urine sample
^{125}I	Volatile	0.33	Thyroid count
^{131}I	Volatile	0.25	Thyroid count
^{32}P	Liquid	500	Urine sample
^{33}P	Liquid	2,500	Urine sample
^{35}S	Liquid	1,700	Urine sample
^{35}S	*Volatile	170	Urine sample

* Methionine, cysteine or trans-labeled ^{35}S have the potential to be slightly volatile.

Email radiation_protection@harvard.edu to send comments and suggestions to the EH&S Radiation Protection Office.

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