

| GAMMA EMITTING RADIONUCLIDES | |
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| Test Description | Determination of gamma photons emitted from radionuclides. |
| Test Use | Useful for evaluating water, milk, sediments, solid media, fish, vegetation, wipes, and air samples collected on charcoal cartridges and filters. |
| Test Department | Radiochemistry: Phone 860-920-6668/6669 Fax 860-920-6670 |
| Methodology | EPA Method 901.1: Gamma Spectroscopy |
| Availability | Year-round |
| Sample Requirements | For Liquid Samples: One (1) sample collected in a pre-cleaned plastic or glass Chem Bottle. |
| Container type /Preservative | For liquid samples: ½ gallon plastic Chem Bottle No Preservative |
| Collection Instructions (Note 1) | For taps, remove aerators and let water run 4-5 minutes. For outdoor locations, sampling location should be in accordance with a preapproved quality assurance project plan. |
| Sample Holding Time & Transport | Samples must be received by the lab within 5 days of collection. |
| Unacceptable Conditions | Incomplete requisition form. Insufficient sample volume. Samples received beyond the 5-day holding time. |
| Requisition Form | Use the Organic/Radiation Chemistry requisition form. |
| Required Information | Fill out entire requisition form. |
| Limitations | Samples to be tested for Iodine-131(¹³¹ I) will be rejected if received by the lab more than 5 days after collection or have been acidified. |
| Additional Comments | The CT PHL can report a wide range of photon emitters with this method. Please contact the lab for specific nuclide list. |

Note 1: See *New England States Environmental Sampling Guide*, latest edition.

<https://www.epa.gov/sites/production/files/2015-06/documents/NE-States-Sample-Collection-Manual.pdf>