

INFRASTRUCTURE/FACILITY	<i>Laboratorio di monitoraggio ambientale di Roma2</i>
INFRASTRUCTURE/FACILITY	<i>LAB-RN</i>
LOCATION OF INFRASTRUCTURE/FACILITY	<i>INGV Headquarter Via di Vigna Murata, 605 - Roma</i>
LEGAL NAME OF OWNER ORGANIZATION	<i>Istituto Nazionale di Geofisica e Vulcanologia (INGV)</i>
COUNTRY	<i>Italy</i>
CONTACT	<i>Stefano Chiappini Viale Pinturicchio, 23/E – 00196 Roma Mobile: +39-335-350223 Email: stefano.chiappini@ingv.it</i>

DESCRIPTION

<i>The facility can offer two HPGe gamma spectrometers:</i>		
<ul style="list-style-type: none"> <i>i. A fixed liquid nitrogen cooled “Ortec GEM40” detector, surrounded by a 15cm of pure lead shielding, resolution (FWHM) at 1.33 MeV Co⁶⁰ : 1.79 keV measured, 1.85 keV warranted); resolution (FWHM) at 122 keV Co⁵⁷ : 684 eV measured, 870 eV warranted).</i> <i>ii. A portable electronically cooled “Ortec Detective” HPGe detector.</i> 		
i.	RI/ Facility participating in an ERIC	NO

ANALYTICS/EXPERIMENTAL COMPONENT OF THE INFRASTRUCTURE/FACILITY

TYPE	SERVICE DESCRIPTION	ADDITIONAL INFORMATION
<i>Fixed HPGe detector</i>	<i>Gamma spectra acquisition from solid and liquid samples.</i>	8192 channels, Energy: 35-3000 KeV Background ~2.3-2.4 cps	
<i>Portable HPGe detector</i>	<i>Gamma spectra acquisition from nearby samples or the environment.</i>	8192 channels, Energy: 0-3 MeV	

ACCESS PROVIDED

*Access provided: Partially remote
(The owner's staff will be present during the initial phase and for all non-standard procedures. At a later stage, the user team can be allowed to independently perform sample changes and acquisition tasks)*

SPECIAL REQUIREMENTS

Num of access over 18 months	<i>Depending on the acquisition time (to be negotiated)</i>
Max period granted over 18 months:	<i>Depending on the acquisition time (to be negotiated)</i>
Exclusion Periods:	<i>About 25% of the time reserved for owner measurements (to be negotiated)</i>
Max period granted per single user team (working day; days for R/V)	<i>Depending on the acquisition time (to be negotiated)</i>
Max num of user team members admitted	3
Admin/Safety requirements for the user team (free itemized text)	<i>For samples with gamma activity levels exceeding the limits specified by Italian law, the user must transport the samples in an appropriately shielded case and include the appropriate documentation and certifications.</i>
Min # days/months of notice to the facility Resp/PI for preparing the access of the user	<i>Users are recommended to agree on the access period at least 3 months in advance</i>
Geographical Areas where RI/facility access is granted to user teams	<i>Rome, Italy</i>

ADDITIONAL NOTES

For the fixed gamma detector, an efficiency calibration curve is provided for the owner's sample geometry.

If a user requires efficiency calibration for a custom sample geometry, it is the user's responsibility to supply a calibration source matching the specific sample geometry (such as container shape and physical state of the sample). Additionally, each sample must be sealed in its container by the user's staff before arriving at the facility.

For the portable gamma spectrometer, it is necessary to agree in advance with the user on the terms of use and a form of insurance that covers any accidental damage to the instrument and the subsequent repair costs.