



ESR STAFF

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ESR (The Institute of Environmental Science and Research) is a Government-owned Crown Research Institute that delivers world class knowledge, research and laboratory services to help New Zealand get the most out of its investment in science and innovation.

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ENVIRONMENTAL AND FOOD VIROLOGY LABORATORY SERVICES



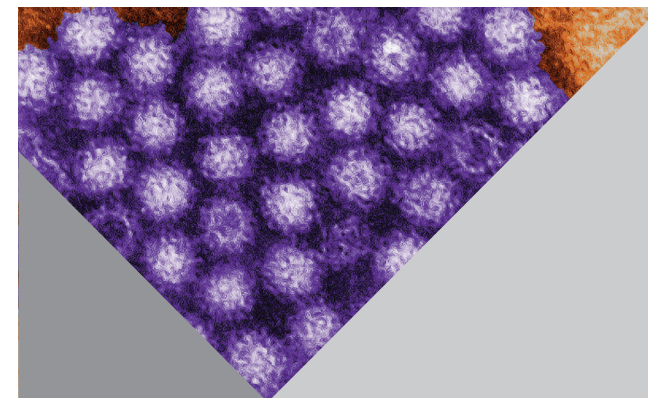
TESTS

- Detection of enteric viruses from shellfish, water, sewage, sludge/biosolids, environmental swabs, soft fruits and salad greens
- Quantitative PCR assays for detection of enteric viruses including norovirus, adenovirus, hepatitis A virus, hepatitis E virus, enterovirus, sapovirus, astrovirus, rotavirus, human polyomavirus
- F-RNA bacteriophage genotyping
- Quantitation of culturable adenoviruses and enteroviruses

APPLICATIONS

- Viral source tracking (animal/human)
- Environmental virus monitoring
- Evaluation of virucidal agents
- Consulting service

ESR provides other virological services including norovirus and rotavirus molecular epidemiology. Please contact us or visit www.esr.cri.nz for further information.



Test	Matrix	Volume/Amount	Maximum turnaround time
Recovery and PCR assay of one enteric virus (from the list above) or F-RNA bacteriophage genotyping	➤ Shellfish	Minimum of 6 but depends on size. Up to 50 individual shellfish may be required for small shellfish (eg cockles)	10 days
	<ul style="list-style-type: none"> ➤ Water ➤ Sewage ➤ Sludge/biosolids 	<ul style="list-style-type: none"> - 1-10L raw wastewater - 10-20L effluent wastewater - 10-50L river and seawater - 10-50L drinking water - 50g sludge/biosolids (dry weight) 	10 days
	➤ Fresh produce (soft fruits and leafy greens)	Minimum of 25g	10 days
Recovery and culture-based assay for presence and quantitation of enteroviruses and adenoviruses	➤ Shellfish (enterovirus only)	Minimum of 6 but depends on size. Up to 50 individual shellfish may be required for small shellfish (eg cockles)	15 days
	<ul style="list-style-type: none"> ➤ Water ➤ Sewage ➤ Sludge 	<ul style="list-style-type: none"> - 1-10L raw wastewater - 10-20L effluent wastewater - 10-50L river and seawater - 10-50L drinking water - 50g sludge/biosolids (dry weight) 	
PCR assays only	<ul style="list-style-type: none"> ➤ Concentrate from any matrix above ➤ Environmental swabs 	As received	10 days

Please contact us to discuss your specific requirements, to request prices, or services not listed.