



From investigating food contamination to identifying the pathogens that cause disease, ESR scientists undertake a range of testing in our accredited laboratories across the country.

www.esr.cri.nz/laboratory-test-catalogue/



ESR HEALTH TESTING AND ANALYSIS

ESR – Kenepuru Science Centre testing services

Antimicrobial Resistance: Open correct form here	
Antimicrobial resistance gene detection by PCR, sequencing and genomic analysis	
Confirmation of acquired carbapenemase	
Molecular typing of nosocomial pathogens	
Reference phenotypic antimicrobial susceptibility testing	
<i>Staphylococcus aureus</i> spa typing	
<i>Staphylococcus aureus</i> toxic shock syndrome toxin-1, enterotoxin and exfoliative toxin detection by PCR	
Environmental and Food Virology <i>(fees may apply for non-MoH work)</i> Open form here for single human requests (<i>Clinical samples</i>) Open form here for non-human single specimen requests (<i>Commercial samples</i>)	 
Recovery of enteric viruses from:	
Wastewater	
Shellfish	
River water	
Drinking water	
Biosolids	
Fresh produce and berry fruits	
Other environmental samples on request	
Molecular detection (and molecular typing where possible) including:	
Norovirus	
Rotavirus	
Adenovirus	
Hepatitis A virus	
Enterovirus	
SARS-CoV-2 (from wastewater only)	
F-RNA bacteriophage	
Detection and quantitation by culture methods:	
Adenovirus	
Enterovirus	
Environmental Microbiology: <i>(fees may apply for non-MoH work)</i> Open correct form here	
Legionella isolation from:	
Cooling tower and other industrial water systems (water and biofilm)	
Dental and medical devices using water (e.g., high-speed drills, heater-cooler units, humidifiers)	
Potable and non-potable water systems (water and biofilm)	
Rainwater collection systems	
Recreational water systems e.g., spa pools (water and biofilm)	
Soil, sludge, compost, mulch, and potting mix	
Environmental Microbiology: <i>(fees may apply for non-MoH work)</i> Open correct form here	
NTB mycobacteria isolation from:	
Potable water systems (water and biofilm)	
Recreational water system (water and biofilm)	
Medical equipment (e.g., humidifiers, heater-cooler units)	
Pseudomonads isolation from:	
Potable water systems (water and biofilm)	
Medical equipment (heater-cooler units, dental water lines)	

Environmental Microbiology: <i>(fees may apply for non-MoH work)</i> Open correct form here	
Heterotrophic Plate Count (21°C & 37°C)	
Recreational waters (eg: spa pools)	
Legionella clinical: Open form here	
Legionella culture identification	
Legionella detection and typing by PCR and DNA sequencing	
Legionella IFA test (serology)	
Legionella isolation and identification from clinical specimens	
Molecular typing of Legionella	
NGS of Legionella	
Invasive Pathogens: Open form here	
Haemophilus influenzae type b gene detection	
Group A streptococcus emm typing	
Streptococcus pneumoniae capsular typing	
Neisseria meningitidis characterisation	
Special Bacteriology: Open form here	
Corynebacterium diphtheriae/ulcerans toxin gene detection	
Listeria monocytogenes characterisation	
Identification of aerobic non-enteric bacteria <i>(fee for service)</i>	
Wallaceville Science Centre testing services	
Enteric and Leptospirosis Reference Laboratory <i># Ministry of Health requirement to refer isolates from clinical cases</i>	
Whole genome sequencing typing and virulence factor detection: Open form here for single human requests (Clinical samples) Open form here for non-human single specimen requests (Commercial samples)	 
Shiga toxin producing <i>Escherichia coli</i> #	
<i>Salmonella enteritidis</i> #	
<i>Shigella</i> species #	
<i>Vibrio cholerae</i> (toxin gene detection within 24 hours) #	
<i>Vibrio parahaemolyticus</i> #	
<i>Yersinia enterocolitica</i> #	
Suspected foodborne illness investigation Open form here	
Leptospira serology (MAT testing) Open form here	
Clinical virology	
Influenza: Open form here	
Influenza PCR for AH1, AH3, AH5, AH7, AH9 and B lineage typing	
Influenza viral isolation	
Influenza antigenic typing	

Influenza: <i>continued</i> Open form here	
Influenza antiviral susceptibility to oseltamivir and zanamivir (phenotypic)	
Influenza A and B whole genome sequencing	
Poliovirus: Open form here	
Poliovirus isolation for suspected acute flaccid paralysis samples	
Poliovirus neutralising antibody detection	
Poliovirus intratypic differentiation by PCR	
Poliovirus VP1-based sequencing	
Mosquito borne viruses: Open form here	
West Nile virus IgM and IgG serology	
Barmah forest virus IgM and IgG serology	
Chikungunya virus IgM and IgG serology	
Chikungunya virus PCR	
Dengue fever virus NS1 antigen	
Dengue fever virus IgM and IgG serology	
Dengue fever virus PCR	
Dengue fever virus serotyping PCR	
Ross River virus IgM and IgG	
Japanese encephalitis IgM and IgG serology	
Zika virus IgM and IgG serology	
Zika virus PCR	
Culture of: Open form here	
Influenza	
Enterovirus	
Adenovirus	
SARS-CoV-2 (PC3)	
Mpox (PC3)	
Other services: Open form here	
Enterovirus PCR and serotyping	
Adenovirus PCR and serotyping	
Respiratory virus detection PCR (Adeno, RSV, hMPV, Parainfluenza, enterovirus, rhinovirus and SARS-CoV-2)	
RSV genotyping and whole genome sequencing	
Mpox detection PCR including clade typing	
Seasonal coronavirus detection PCR	
Filovirus detection PCR	
Blood borne virus: Open form here	
HBsAg EIA neutralisation	
HBcAb Total	
HBc IgM Ab	
HBV DNA viral load (quantitative)	
Anti-HCV confirmation testing	
HCV RNA viral load (quantitative)	
Anti-HDV IgG	
HIV-1 & 2 confirmation testing	
HTLV-1 & 2 antibody testing	