Animal Health Laboratory (AHL), Laboratory Services Division (LS), University of Guelph,

List of methods falling under flexible scope

The Animal Health Laboratory (AHL) of Laboratory Services (LS), University of Guelph is accredited for veterinary laboratory testing test methods (fixed scope) and techniques under test method development and evaluation and non-routine testing specialty area (flexible scope) as listed on LS' SCC ISO/IEC 17025 scope of accreditation https://www.scc.ca/en/search/laboratories/ahl.

The test methods listed below are accredited and fall under the flexible scope mentioned above. If the test method you are seeking is not on this controlled list, contact the Quality Assurance unit at qamail@uoguelph.ca.

The Animal Health Laboratory identifies unknown hazards in a range of matrices, for example, animal samples, feed, soil, and plants. Hazards include infectious agents (bacteria, mycoplasmas, yeast, molds, viruses, and parasites), organic and inorganic elements and compounds. Infectious agents are detected directly or indirectly through various technologies listed under LS' SCC scope of accreditation.

Techniques for which the laboratory is accredited are listed below:

1. Culture detection of microorganisms

Method code	Method name	Agent and sample types
MYC-100	Mycoplasma and Ureaplasma isolation	Mycoplasma, Ureaplasma, Acholeplasma spp. for fluids and tissues

2. Inorganic analysis by inductively coupled plasma spectroscopy (ICP)

Method code	Method name	Elements and sample types
CHEM-162	ICP-MS analysis of trace metals in serum, plasma and blood	manganese, iron, cobalt, copper, zinc, selenium, molybdenum, lead for serum, plasma and blood

3. Enzyme linked immunosorbent assay (ELISA)

Method code	Method name	Agent and sample types
V-002	ELISA	Coxiella burnetii (Q fever) for
		detection of antibodies in serum
		Transmissible gastroenteritis virus
		(TGEV) and porcine respiratory
		coronavirus (PRCV) for detection of
		antibodies in serum

4. Agglutination

Method code	Method name	Agent and sample types
V-007	Agglutination - Brucella, Mycoplasma, Salmonella	• Salmonella Pullorum/Salmonella Gallinarum for detection of antibodies in serum
V-008	Leptospira microscopic agglutination test (MAT)	• <i>Leptospira</i> spp. for detection of antibodies in serum

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5. Polymerase chain reaction (PCR)

Method code	Method name	Agent and sample types
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MOL-181	Mycoplasma bovis real-	Mycoplasma bovis for embryo
	time PCR	collection fluid/embryo transportation
		fluid (ETF), lung, semen, and swabs.
MOL-197	PCR detection of avian	Mycoplasma gallisepticum
	mycoplasmas	Mycoplasma iowae
		Mycoplasma synoviae
		for fluids, tissue and swabs
MOL-208	Coxiella burnetii real-time	• Coxiella burnetii for fluids including
	PCR	milk, tissues, and swabs
MOL-218	Chlamydia PCR	Chlamydia abortus
		Chlamydia psittaci
		For fluids, tissue and swabs
MOL-235	Real-time PCR detection of	Pseudogymnoascus destructans
1,102 200	Pseudogymnoascus	(formerly Geomyces destructans) for
	destructans (formerly	fluids, guano, tissue, soil and swabs
	Geomyces destructans)	naids, guano, assue, son and swaos
MOL-249	PCR detection of fish	Infectious pancreatic necrosis virus
10101219	viruses	(IPNV) for fluids and tissue
MOL-251	Honey bee molecular	
WIOL-231	testing	Acute bee paralysis virus (ABPV) Plants groups at the inner (BOCN)
	testing	Black queen cell virus (BQCV) GRAVI G
		• Chronic bee paralysis virus (CBPV)
		• Deformed wing virus (DWV)
		• Israeli acute paralysis virus (IAPV)
		• Kashmir bee virus (KBV)
		• Sacbrood virus (SBV)
		all for bees and bee tissues
MOL-257	Chytrid PCR	Batrachochytrium dendrobatidis
	(Batrachochytrium	B. salamandrivorans
	dendrobatidis & B.	for swabs and tissue
	salamandrivorans)	
MOL-262	Echinococcus species PCR	Echinococcus multilocularis for
	•	feces, fluids and tissue
MOL-267	Myxobolus cerebralis	• <i>Myxobolus cerebralis</i> for fluids, fish
	(whirling disease	and fish tissue
	pathogen) PCR	
MOL-282	PCR detection of fish	Aeromonas salmonicida ssp
	bacterial pathogens	salmonicida
	Cacterian pannogens	Flavobacterium psychrophilum.
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		Lactococcus garvieae
		Renibacterium salmoninarum
		for fluids, fish and fish tissue

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5. Polymerase chain reaction (PCR) continued

Method code	Method name	Agent and sample types
V-005	Polymerase chain reaction (PCR)	 Bluetongue virus (BTV) /Epizootic hemorrhagic disease virus (EHDV) for fluids and tissues Bovine viral diarrhea virus (BVDV) type I and type II for fluids and tissues Infectious bovine rhinotracheitis virus, bovine herpesvirus 1) (IBRV) for fluids and tissues Infectious laryngotracheitis virus (ILTV gallid herpesvirus 1 [GaHV-1]) for fluids and tissues Porcine circovirus 2 (PCV-2) for fluids and tissues Porcine parvovirus (PPV) for fluids and tissues Porcine respiratory coronavirus (PRCV) for fluids and tissues Severe acute respiratory syndrome virus 2 (SARS-CoV-2) – E gene and (SARS-CoV-2) – RdRp gene for fluids and tissues

6. Whole genome sequencing

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Method code	Method name	Agent and sample types
BAC-041	Whole genome sequencing	Bacterial isolates for bacterial culture
	(WGS) of bacterial isolates	