

Colorado State University

Veterinary Diagnostic Laboratories

Fort Collins - Rocky Ford – Western Slope

AVIAN DIAGNOSTICS

IMPORTANT: Time required for testing, as shown in the test schedule below, is only an estimate. We make every effort to adhere to these schedules, however, unexpected sample volumes, poor sample quality, equipment failure of other factors beyond our control may impact our ability to meet these timelines. Always collect and submit samples well in advance of YOUR deadline to provide us with ample time should problems arise.

TESTS	SUBMISSION	CONTAINER	COOLANT	DEAD-LINE	TIME REQUIRED	SPECIAL COMMENTS
BACTERIOLOGY						
Aerobic Culture	1) Tissue 2) Swab 3) Fluid	Sterile container	Refrigerate	Set up daily. M-F by 4:30 p.m. Sat & Sun by noon.	3-5 days. (Depends on growth of organism)	Swabs are not acceptable for urine specimens. Gram stain routinely set up for small intestines only. Port-a-cul transport media available free of charge.
Anaerobic Culture	1) Swab 2) Tissue 3) Fluid/aspirate	1) Anaerobic transport media 2) Sterile container 3) Sterile container (RTT)	1) None 2) Refrigerate 3) Refrigerate	M-F by 4:30 p.m. Sat & Sun by noon.	3-10 days. (Depends on growth of organism)	Cultures submitted for anaerobic culture will be cultured aerobically as well. Aspirates should be delivered immediately to the lab. Port-a-cul transport media available free of charge. Gram stains are done routinely.
Antibiotic Susceptibility (Pre-isolated organisms)	Aerobic bacterial isolate	Trypticase Soy Agar Slant May require Blood Agar Slant	None	M-F by 4:30 p.m.	24 hours after bacterial growth isolated. Some fastidious organisms do not grow.	Contact laboratory for specific antibiotics.
Mycoplasma Serology	1/2 ml serum	RTT	Refrigerate	M-F by 2:00 p.m.	Same day by 5:00 p.m.	Avian only. <u>M. gallisepticum</u> , <u>M. meleagridis</u> , <u>M. synoviae</u> available. Large accessions (>20) require prior notification.
PCR for Mycoplasma gallisepticum	Joint or nares swab. Tracheal swab. Tissue from necropsy.	Snap top tube or red top tube. Submit swab in BHI or NAD.	None	Tue. p.m.	Thur. after 3:00 p.m.	Can test for <u>M. gallisepticum</u> and <u>M. synoviae</u> from same sample.
PCR for Mycoplasma Synoviae	Joint or nares swab. Tracheal swab. Tissue from necropsy.	Snap top tube or red top tube. Submit swab in BHI or NAD.	None	Tue. p.m.	Thur. after 3:00 p.m.	Can test for <u>M. gallisepticum</u> and <u>M. synoviae</u> from same sample.
Salmonella	1/2 ml serum	RTT	Refrigerate	M-F by 12:00 p.m.	Same day by 5:00	Large accession (>20) require

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<u>pullorum/typhoid serology</u>					p.m.	prior notification.
Necropsy	Whole animal		Refrigerate	M-F Sat & Sun a.m.	2-7 days	2 birds for the price of 1 Lab work additional
Necropsy/Histo	Whole animal		Refrigerate	M-F Sat & Sun a.m.	2-5 days	2 birds for the price of 1 Lab work additional
Salmonella-Poultry Mortality						
Surgical Biopsy - One or multiple tissues.	Biopsy	10% buffered formalin	None	M-F	1-2 days	

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<i>VIROLOGY</i>						
Avian Influenza 1) AGID Serology 2) ELISA 3) HI Serology 4) Real time PCR 5) Virus Isolation	1) 1/2 ml serum 2) 1/2 ml serum 3) 1/2 ml serum 4) Tracheal & cloacal swabs 5) fresh tissue, tracheal and/or cloacal swab	1) RTT 2) RTT 3) RTT 4) STT, 1 ml BHI 5) Whirlpack or STT	1) Refrigerate 2) Refrigerate 3) Refrigerate 4) Refrigerate 5) Refrigerate	1) M-F by 12:00 2) M-F by 5:00 p.m. 3) M-F by 5:00 p.m. 4) M-F by 12:00 p.m. 5) M-F by 12:00 p.m.	1) 1-2 days 2) 1-2 days 3) One Week 4) 3-5 days 5) 1-2 weeks	1, 2, 4, 5) Reported as positive or negative. 3) Titers are reported
Avian Psittacosis 1) FA 2) PCR	1) Whole bird (double bag please) 2) Feces (one dropping each day for 4-5 days)	1) Ziplock bag or double whirlpak 2) Ziploc bag or double whirlpak	1) Refrigerate 2) Refrigerate	1) M-F by 12:00 p.m. 2) Wed by 12:00 p.m.	1) By 5:00 p.m. 2) 2 days later	1) Detects chlamydial elementary bodies. Reported as positive or negative. 2) Detects chlamydia psittaci DNA. Reported as positive or negative.
Exotic Newcastle Disease 1) HI Serology 2) ELISA 3) Virus Isolation 4) Real time PCR	1) 1/2 ml serum 2) 1/2 ml serum 3) fresh tissue, tracheal swab 4) Tracheal & cloacal swabs	1) RTT 2) RTT 3) Whirlpack or STT 4) STT, 1 ml BHI	1) Refrigerate 2) Refrigerate 3) Refrigerate 4) Refrigerate	1)) M-F by 5:00 p.m. 2)) M-F by 5:00 p.m. 3) M-F by 12:00 p.m. 4) M-F by 12:00 p.m.	1) One Week 2) 1-2 days 3) 1-2 weeks 4) 3-5 days	1) Titers are reported 2, 3, 4) Reported as positive or negative.

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