



Specimen Submission Guidelines for Molecular Biology Tests

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- Pack and separate all specimens accordingly in clean individual plastic bags.
- **AVOID** using staples because it will puncture the packing materials of your specimens. Instead, seal the plastic bags with rubber bands or use the zip-lock bags.
- To speed up the process, send in organs instead of dead chicks so that processing of the specimens for nucleic acid extraction will be quicker.
- Label all specimens legibly with **specimen type**, **specimen identification** and **sampling date**. You may use permanent marker or self-stick labels.
- Place all specimens in a larger plastic bag held secure with rubber bands to prevent leakage.
- Pack fresh specimens in a **styrofoam box** with **refrigerant/cooling material/ice pack** and courier or hand-deliver to the laboratory along with the submission forms which clearly states the customer name and address, billing information, sender particulars, sample details, etc.



- **AVOID** pooling more than 3 organ specimens into one to minimize the risk of false negative result.
- If shipping from overseas, you may swab the samples on FTA cards and ship directly to the laboratory as per manufacturer's requirements.
- For faster results and optimal accuracy, choose real time PCR.
- For test related to bacterial identification, choose CPCR/RPCR for quicker results.

DIVA assay stands for **D**ifferentiation between **I**nfected versus **V**accinated. It is a real time PCR assay to determine whether a sample has a true field infection or if it is a vaccine strain.

CPCR denotes **conventional** PCR; **RPCR** denotes **real time** PCR

**VET FOOD AGRO DIAGNOSTICS (M) SDN BHD (560721-X)**

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TEST CODE	TEST NAME	SPECIMEN TYPE
31RPCR-M039*	Avian Influenza Virus –H5N1	<ul style="list-style-type: none"> o Trachea swab o Lungs o Spleen o Pooled Organs
31CPCR-M004	Newcastle Disease (NDV)	<ul style="list-style-type: none"> o Trachea/trachea swab o Cloacal swab
31RPCR-M053*	Newcastle Disease (NDV)	<ul style="list-style-type: none"> o Faecal samples
31RPCR-M075	DIVA assay - Newcastle Disease (NDV)	<ul style="list-style-type: none"> o Oro-nasal swab o Lungs o Kidneys o Intestine (including contents) o Spleen o Brain o Liver o Heart tissues
31CPCR-M005	Infectious Bronchitis Virus (IBV-793/B/D274/Mass)	<ul style="list-style-type: none"> o Tracheal mucosa swab
31RPCR-M083	Infectious Bronchitis Virus – 793/B	<ul style="list-style-type: none"> o Turbinate swab o Lungs
31RPCR-M084	Infectious Bronchitis Virus - Massachusetts	<ul style="list-style-type: none"> o Faeces o Kidneys o Caecal tonsillar tissue
31CPCR-M002	Swollen Head Syndrome(SHS)/Avian metapneumovirus (APV)	<ul style="list-style-type: none"> o Tracheal swab
31RPCR-M056*	Avian metapneumovirus (APV)	<ul style="list-style-type: none"> o Turbinate swab
31RPCR-M077	DIVA assay-Avian Pneumovirus	<ul style="list-style-type: none"> o Lungs
31CPCR-M006	Infectious Bursal Disease (IBDV)	<ul style="list-style-type: none"> o Kidney
31RPCR-M054*	Infectious Bursal Disease (IBDV)	<ul style="list-style-type: none"> o Bursal
31RPCR-M076	DIVA assay-IBDV	
31CPCR-M007	Reovirus	<ul style="list-style-type: none"> o Faecal sample
31RPCR-M052*	Reovirus	<ul style="list-style-type: none"> o Spleen
31RPCR-M074	DIVA Assay - Reovirus	

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31CPCR-M003	Chicken Anemia Virus (CAV)	<ul style="list-style-type: none"> o Bone marrow o Spleen
31CPCR-M067*	Adenovirus (Egg Drop Syndrome)	<ul style="list-style-type: none"> o Liver o Cloacal swab o Nasal swab
31RPCR-M031*	Adenovirus Group 1	
31CPCR-M017	Infectious Laryngotracheitis (ILT)/Herpesvirus	<ul style="list-style-type: none"> o Trachea/tracheal swab o Oropharyngeal swab o Conjunctival swab
31RPCR-M032*	Marek's Disease Virus Serotype 1 (Gallid herpesvirus)	<ul style="list-style-type: none"> o Spleen o Proventriculus o Feathers swab o Kidney
31RPCR-M033*	Marek's Disease Virus Serotype 2 (Gallid herpesvirus)	
31RPCR-M034*	Marek's Disease Virus Serotype 3 (Gallid herpesvirus)	
31CPCR-M001	<i>Mycoplasma gallisepticum</i> / <i>Mycoplasma synoviae</i> (MG/MS)	<ul style="list-style-type: none"> o Trachea/tracheal swab o Lungs o Synovial fluid o Hock joint swab
31RPCR-M085	<i>Mycoplasma gallisepticum</i> (MG)	
31RPCR-M086	<i>Mycoplasma synoviae</i> (MS)	
31RPCR-M104*	Avian Encephalomyelitis (AE)	<ul style="list-style-type: none"> o Gizzard o Proventriculus o Pancreas o Brain
31CPCR-M105*	Avian Leukosis Virus Subtype J (ALVJ)	<ul style="list-style-type: none"> o Lung o Brain o Kidney o Blood
31CPCR-M015	Porcine circovirus type 1/type 2/Parvovirus	<ul style="list-style-type: none"> o Lymph nodes o Kidney o lungs
31RPCR-M030	Porcine circovirus type 2	
31RPCR-M073	DIVA assay-PCV type-2	
31RPCR-M037*	Swine Influenza Virus – H1N1	<ul style="list-style-type: none"> o Lungs o Kidneys o Other organs specimen
31RPCR-M038*	Swine Influenza Virus – H3N2	
31RPCR-M036*	<i>Actinobacillus pleuropneumoniae</i>	<ul style="list-style-type: none"> o Lymph nodes



TEST CODE	TEST NAME	SPECIMEN TYPE
31CPCR-M016	Porcine Reproductive and Respiratory Syndrome Virus (EU/US)	o Lymph nodes
31RPCR-M087	Porcine Reproductive and Respiratory Syndrome Virus (EU)	
31RPCR-M088	Porcine Reproductive and Respiratory Syndrome Virus (US)	
31CPCR-M102*	<i>Leptospira</i> spp.	o Blood o Urine o Liver o Lung o Brain o Kidney
31CPCR-M011*	Foot and Mouth Disease Virus	o Organs o Epithelium from unruptured or freshly reaptured vesicles o Vesicular fluid o Blood o Oesophageal-pharyngeal fluid taken from probang cup o Throat swabs
31RPCR-M078*	White Spot Syndrome Virus	o Aquaculture samples
31CPCR-M068	White Spot Syndrome Virus	
31RPCR-M079*	Infectious Hypodermal and Hematopoietic Necrosis Virus	o Aquaculture samples
31CPCR-M072	Infectious Hypodermal and Hematopoietic Necrosis Virus	
31RPCR-M080*	Taura Syndrome Virus	o Aquaculture samples
31CPCR-M069	Taura Syndrome Virus	
31RPCR-M081*	Monodon Baculovirus	o Aquaculture samples
31CPCR-M070	Monodon Baculovirus	
31RPCR-M082*	Yellow Head Virus	o Aquaculture samples
31CPCR-M071	Yellow Head Virus	



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TEST CODE	TEST NAME	SPECIMEN TYPE
31RPCR-M051	<i>Aeromonas hydrophila</i>	o Aquaculture samples
31RPCR-M064*	<i>Yersinia enterocolitica</i>	o Aquaculture samples
31RPCR-M050*	<i>Rhodococcus equi</i>	o Swabs from Equine
31RPCR-M066*	<i>Strep equi subsp equi</i>	o Swabs from Equine
31CPCR-M018*	<i>Streptococcus equi/ Strangles</i>	
31RPCR-M061*	<i>Streptococcus bovis</i>	o Swabs/organ specimens from bovine source
31CPCR-M012	<i>Salmonella spp.</i>	o Cloacal swab o Environmental swab o Faecal sample o Liver o Yolk o GIT
31CPCR-M013	<i>Staphylococcus aureus</i>	o Processed food o Frozen meat/ seafood o Dairy product o Chicken meat
31CPCR-M008	Multiplex Vancomycin Resistant Enterococcus (VRE - <i>vanA/vanB/vanC</i>)	o Cloacal swab o Environmental swab
31RPCR-M019*	Vancomycin Resistant Enterococcus - <i>vanA</i>	o Faecal sample
31RPCR-M020*	Vancomycin Resistant Enterococcus - <i>vanB</i>	o Liver
31RPCR-M021*	Vancomycin Resistant Enterococcus - <i>vanC</i>	o Yolk
31RPCR-M035	Multiplex MRSA (<i>mecA</i>) & VRE (<i>vanA</i>)	o GIT
31CPCR-M009*	<i>Campylobacter spp.</i>	o Frozen meat
31RPCR-M028*	<i>Campylobacter jejuni</i>	o Dairy products seafood
31RPCR-M029*	<i>Campylobacter coli</i>	o Chicken meat o GIT o Faeces o Rectal swab



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TEST CODE	TEST NAME	SPECIMEN TYPE
		o Caecal contents
31CPCR-M010	<i>Listeria</i> spp.	o Processed food
31RPCR-M022*	<i>Listeria monocytogenes</i>	o Frozen meat
31RPCR-M023*	<i>Listeria ivanovii</i>	o Dairy product
31RPCR-M024*	<i>Listeria innocua</i>	o Chicken meat
31RPCR-M025*	<i>Listeria welshimeri</i>	o Seafood
31RPCR-M026*	<i>Listeria seelegeri</i>	
31RPCR-M027*	<i>Listeria grayi</i>	
31RPCR-M040*	<i>Aspergillus niger</i>	o Raw rice
31RPCR-M041*	<i>Aspergillus oryzae</i>	o Feed samples
31RPCR-M042*	<i>Aspergillus ustus</i>	
31RPCR-M043	<i>Klebsiella oxytoca</i>	o Infant milk formula
31RPCR-M045	<i>Pseudomonas aeruginosa</i>	o Food Material
31RPCR-M046*	<i>Fusarium solani</i>	o Feed/ Food Material
31RPCR-M047*	<i>Edwardsiella tarda</i>	o Food material from aquaculture source
31RPCR-M048	<i>Citrobacter freundii</i>	o Cloacal swab o Food material
31RPCR-M049*	<i>Bacillus cereus</i>	o Raw meat o Food material
31RPCR-M058	GMO Round Up Soy (Lectin gene) - Qualitative PCR	o Soya bean milk o Any raw material from soy source
31RPCR-M059	<i>Cronobacter sakazakii</i>	o Infant milk formula
31RPCR-M057	<i>Legionella pneumophila</i>	o Water samples
31CPCR-M014	Detection of Porcine Derivatives (Halal Verification)	o Any food material in solid or

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TEST CODE	TEST NAME	SPECIMEN TYPE
		liquid form
31CPCR-M101*	Feline Leukemia Virus (FeLV)	o Whole blood from cats
31CPCR-M103*	Feline Immunodeficiency Virus (FIV)	o Whole blood from cats
31RPCR-M044	<i>Microsporium canis</i>	o Swabs from dogs o Skin/fur swab
31RPCR-M062*	<i>Bordetella pertussis</i>	o Blood/ Swabs
31RPCR-M063*	<i>Bordetella parapertussis</i>	

[Disclaimer: Tests marked "*" in this guidelines are "Not SAMM Accredited" and are not included in the SAMM Accreditation Schedule of this laboratory]