



**Vet Food Agro
Diagnostics (M)
Sdn Bhd**
200101024963 (560721-X)

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Specimen Submission Guidelines for **Molecular Biology Tests**

Get your lab results online at VETLAB® Reporting System (VRS) Online
www.vfad.com.my/vrsonline

- 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



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Sending in sample via FTA Card

1. Label the FTA card with the appropriate sample identification.
2. Use about 100-200mg of tissue sample for the homogenate.
3. Add PBS to tissue sample using an estimated ratio of 5 parts PBS to 1 part tissue. Grind with a pestle until it is apparent that some tissue is homogenized. The homogenate does not have to be smooth in consistency.
4. Using a pipette, apply the tissue homogenate to each circle on FTA card. Allow the sample to dry for one hour at room temperature. DO NOT heat to shorten the drying period.
5. Samples applied to FTA cards are ready for room temperature storage.
6. Place the FTA card into envelop and post as document to:

Vet Food Agro Diagnostics (M) Sdn. Bhd.

Lot 18B, Jalan 241, Seksyen 51A

46100 Petaling Jaya, Selangor, Malaysia

Attn: Ms. Koon Shi Ying / Ms. Kwong Sze Yien

Tel: +603 78736405

Fax: +603 27700119

Email: vfad.mb@rhonema.com / vfad@rhonema.com.my

Precautions:

Handling: Always wear gloves to avoid contamination of FTA Cards. Follow universal precautions when handling biological specimens. **DO NOT touch circle on FTA card.**

Storage: Store unused cards in original packaging in a cool, dry, clean environment. After applying samples, allow them to dry, then store at room temperature in a dry environment.



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TEST CODE	TEST NAME	SPECIMEN TYPE
AVIAN		
31CPCR-M131* 31CPCR-M067 31RPCR-M117*	Adenovirus Group I (IBH) Adenovirus Group III (Egg Drop Syndrome) Adenovirus Group III (Egg Drop Syndrome)	<ul style="list-style-type: none"> o Nasal swab o Kidney o Gizzard o Faeces o Tracheal swab
31CPCR-M104*	Avian Encephalomyelitis (AE)	<ul style="list-style-type: none"> o Gizzard o Proventriculus o Pancreas o Brain
31CPCR-M108* 31CPCR-M105	Avian Leukosis Virus Subtype A-E (ALV A-E) Avian Leukosis Virus Subtype J (ALVJ)	<ul style="list-style-type: none"> o Lungs o Brain o Kidney o Blood o Proventriculus o Liver o Spleen o Sciatic nerves o Bursa
31CPCR-M002 31RPCR-M056* 31RPCR-M077	Avian metapneumovirus (APV)/ Swollen Head Syndrome(SHS) Avian metapneumovirus (APV) DIVA assay - Avian metapneumovirus	<ul style="list-style-type: none"> o Tracheal swab o Turbinate swab o Lungs
31CPCR-M118	<i>Avibacterium paragallinarum</i>	<ul style="list-style-type: none"> o Head o Trachea o Air sacs o Nasal swab o Tracheal swab
31CPCR-M003 31RPCR-M096*	Chicken Anaemia Virus (CAV) DIVA assay - Chicken Anaemia Virus (CAV)	<ul style="list-style-type: none"> o Bone marrow o Spleen
31CPCR-M136*	Chicken Astrovirus (CAstV)	<ul style="list-style-type: none"> o Intestine o Lungs o Pancreas



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TEST CODE	TEST NAME	SPECIMEN TYPE
		<ul style="list-style-type: none"> o Spleen o Kidney
31CPCR-M109*	Fowlpox Virus (FPV)	<ul style="list-style-type: none"> o Skin o Trachea swabs o Liver o Kidney o Spleen o Lungs o Pharyngeal swabs
31CPCR-M005	Infectious Bronchitis Virus (IBV-793/B /Mass)	<ul style="list-style-type: none"> o Tracheal mucosa swab
31RPCR-M055*	Infectious Bronchitis Virus Screening	<ul style="list-style-type: none"> o Lungs
31RPCR-M083	Infectious Bronchitis Virus – 793/B	<ul style="list-style-type: none"> o Faeces
31RPCR-M084	Infectious Bronchitis Virus – Massachusetts	<ul style="list-style-type: none"> o Kidneys
31RPCR-M094*	DIVA assay - Infectious Bronchitis Virus – 793/B	<ul style="list-style-type: none"> o Caecal tonsils
31RPCR-M095*	DIVA assay - Infectious Bronchitis Virus – Massachusetts	<ul style="list-style-type: none"> o Turbinate swab
31CPCR-M112	Infectious Bronchitis Virus – QX Strain (IBQX)	
31CPCR-M006	Infectious Bursal Disease Virus (IBD)	<ul style="list-style-type: none"> o Kidney
31RPCR-M054*	Infectious Bursal Disease Virus (IBD)	<ul style="list-style-type: none"> o Bursal
31RPCR-M076	DIVA assay - Infectious Bursal Disease Virus (IBD)	
31RPCR-M092*	Infectious Bursal Disease Virus (IBD Variant)	
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 (MD1)	<ul style="list-style-type: none"> o Spleen
31RPCR-M033*	Marek's Disease Virus Serotype 2 (MD2)	<ul style="list-style-type: none"> o Proventriculus
31RPCR-M034*	Marek's Disease Virus Serotype 3 (MD3)	<ul style="list-style-type: none"> o Feathers swab
31RPCR-M093*	DIVA - Marek's Disease Virus Serotype 1 (MD1)	<ul style="list-style-type: none"> o Kidney
31RPCR-M121*	Marek's Disease Virus Serotype 1 (MD1) Quantitative PCR	
31CPCR-M135*	Marek's Disease Virus Serotype 3 (HVT)	
31CPCR-M001	<i>Mycoplasma gallisepticum</i> (MG)/ <i>Mycoplasma synoviae</i> (MS)	<ul style="list-style-type: none"> o Trachea/tracheal swab
31RPCR-M085	<i>Mycoplasma gallisepticum</i> (MG)	<ul style="list-style-type: none"> o Lungs
31RPCR-M086	<i>Mycoplasma synoviae</i> (MS)	<ul style="list-style-type: none"> o Synovial fluid o Hock joint swab



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TEST CODE	TEST NAME	SPECIMEN TYPE
31CPCR-M004	Newcastle Disease (NDV)	<ul style="list-style-type: none"> o Trachea/trachea swab
31RPCR-M053*	Newcastle Disease (NDV)	<ul style="list-style-type: none"> o Lungs o Kidneys
31RPCR-M075	DIVA assay - Newcastle Disease (NDV)	<ul style="list-style-type: none"> o Intestine (including contents) o Spleen o Brain o Liver o Heart tissues o Cloacal swab o Faecal samples o Oronasal swab
31CPCR-M133*	<i>Ornithobacterium rhinotracheale</i> (ORT)	<ul style="list-style-type: none"> o Trachea o Lung o Air sac
31RPCR-M060	<i>Pasteurella multocida</i>	<ul style="list-style-type: none"> o Lung o Trachea mucosa swab o Turbinate swab
31CPCR-M007	Reovirus	<ul style="list-style-type: none"> o Hock joints swab
31RPCR-M052*	Reovirus	<ul style="list-style-type: none"> o Tendon
31RPCR-M074	DIVA Assay – Reovirus	<ul style="list-style-type: none"> o Trachea swabs o Spleen
CANINE		
31CPCR-M106	<i>Babesia gibsoni</i>	<ul style="list-style-type: none"> o Whole blood from dogs
31CPCR-M100*	Canine Parvovirus/Feline Parvovirus	<ul style="list-style-type: none"> o Faecal sample
31CPCR-M102*	<i>Leptospira</i> spp.	<ul style="list-style-type: none"> o Blood o Urine o Liver o Lung o Brain o Kidney
FELINE		
31CPCR-M101*	Feline Leukemia Virus (FeLV)	<ul style="list-style-type: none"> o Whole blood from cats
31CPCR-M103	Feline Immunodeficiency Virus (FIV)	<ul style="list-style-type: none"> o Whole blood from cats



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TEST CODE	TEST NAME	SPECIMEN TYPE
PORCINE		
31CPCR-M111*	Classical Swine Fever Virus (CSFV)	<ul style="list-style-type: none"> ○ Tonsils ○ Lymph nodes ○ Spleen ○ Kidney ○ Whole blood in EDTA
31RPCR-M030	Porcine Circovirus type 2	<ul style="list-style-type: none"> ○ Lymph nodes ○ Kidney ○ Lungs
31RPCR-M073	DIVA assay-PCV type-2	
31RPCR-M120*	Porcine Circovirus type 2 – for serum	
31CPCR-M115	Porcine Parvovirus	<ul style="list-style-type: none"> ○ Spleen ○ Lymph nodes ○ Lungs ○ Kidney ○ Serum
31CPCR-M016	Porcine Reproductive and Respiratory Syndrome Virus (EU/US)	<ul style="list-style-type: none"> ○ Lymph nodes ○ Serum
31RPCR-M087	Porcine Reproductive and Respiratory Syndrome Virus (EU)	
31RPCR-M088	Porcine Reproductive and Respiratory Syndrome Virus (US)	
FOOD		
31CPCR-M137*	Detection of Avian Derivatives	<ul style="list-style-type: none"> ○ Raw Meat ○ Processed Meat ○ Vegan Processed Food
31CPCR-M138*	Detection of Horse Derivatives	<ul style="list-style-type: none"> ○ Raw Meat ○ Processed Meat ○ Vegan Processed Food
31CPCR-M139*	Detection of Beef Derivatives	<ul style="list-style-type: none"> ○ Raw Meat ○ Processed Meat



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TEST CODE	TEST NAME	SPECIMEN TYPE
		<ul style="list-style-type: none"> Vegan Processed Food
31CPCR-M140*	Detection of Buffalo Derivatives	<ul style="list-style-type: none"> Raw Meat Processed Meat Vegan Processed Food
FOODBORNE PATHOGENS		
31RPCR-M040*	<i>Aspergillus niger</i>	<ul style="list-style-type: none"> Raw rice
31RPCR-M041*	<i>Aspergillus oryzae</i>	<ul style="list-style-type: none"> Feed samples
31RPCR-M049*	<i>Bacillus cereus</i>	<ul style="list-style-type: none"> Raw meat Food material
31CPCR-M009*	<i>Campylobacter</i> spp.	<ul style="list-style-type: none"> Frozen meat Dairy products seafood
31RPCR-M028*	<i>Campylobacter jejuni</i>	<ul style="list-style-type: none"> Chicken meat
31RPCR-M029*	<i>Campylobacter coli</i>	<ul style="list-style-type: none"> GIT Faeces Rectal swab Caecal contents
31RPCR-M048	<i>Citrobacter freundii</i>	<ul style="list-style-type: none"> Cloacal swab Food material
31RPCR-M059	<i>Cronobacter sakazakii</i>	<ul style="list-style-type: none"> Infant milk formula
31RPCR-M046*	<i>Fusarium solani</i>	<ul style="list-style-type: none"> Feed/ Food Material
31RPCR-M043	<i>Klebsiella oxytoca</i>	<ul style="list-style-type: none"> Infant milk formula
31CPCR-M010	<i>Listeria monocytogenes</i>	<ul style="list-style-type: none"> Processed food
31RPCR-M022*	<i>Listeria monocytogenes</i>	<ul style="list-style-type: none"> Frozen meat
31RPCR-M023*	<i>Listeria ivanovii</i>	<ul style="list-style-type: none"> Dairy product
31RPCR-M024*	<i>Listeria innocua</i>	<ul style="list-style-type: none"> Chicken meat
31RPCR-M025*	<i>Listeria welshimeri</i>	<ul style="list-style-type: none"> Seafood
31RPCR-M026*	<i>Listeria seelegeri</i>	
31RPCR-M027*	<i>Listeria grayi</i>	



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TEST CODE	TEST NAME	SPECIMEN TYPE
31RPCR-M045	<i>Pseudomonas aeruginosa</i>	o Food Material
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
WATER QUALITY		
31RPCR-M057	<i>Legionella pneumophila</i>	o Water samples
AQUACULTURE		
31RPCR-M051	<i>Aeromonas hydrophila</i>	o Aquaculture samples
31CPCR-M072	Infectious Hypodermal and Hematopoietic Necrosis Virus (IHHNV)	o Crustaceans
31RPCR-M079*	Infectious Hypodermal and Hematopoietic Necrosis Virus (IHHNV)	
31CPCR-M070	Monodon Baculovirus (MBV)	o Crustaceans
31RPCR-M081*	Monodon Baculovirus (MBV)	
31CPCR-M069	Taura Syndrome Virus (TSV)	o Crustaceans
31RPCR-M080*	Taura Syndrome Virus (TSV)	
31CPCR-M068	White Spot Syndrome Virus (WSSV)	o Crustaceans
31RPCR-M078*	White Spot Syndrome Virus (WSSV)	
31CPCR-M071	Yellow Head Virus (YHV)	o Crustaceans
31RPCR-M082*	Yellow Head Virus (YHV)	
HALAL VERIFICATION		
31CPCR-M014	Detection of Porcine Derivatives (Halal Verification)	o Any food material in solid or liquid form
31RPCR-M065*	Detection of Porcine Derivatives (Halal Verification)	



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TEST CODE	TEST NAME	SPECIMEN TYPE
OTHERS		
31SVCS-MS04*	Sequencing & Blast	

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