

GENERAL INFORMATION

This is a list of Assays for Veterinary Diagnostic Services using PCR, Real Time PCR or Sequencing methodologies.

For other assays or further information, please see below and visit www.mbg.ae

For Veterinary Genomics Services please refer to MBG-C0114

For Veterinary Genetic Disorders please refer to MBG-C0116

For Veterinary Cytogenetics and Stem cell services please refer to MBG-C0113

For Veterinary Genotyping Services, refer to MBG-C0104 For other assays not listed, individual projects and any other research collaborations; please contact MBG Centre for further information.

Recommended sample types are based on sources such as OIE, CDC and AHT and the expertise of MBG Centre.

Notes:

For CL3 pathogens; please contact MBG centre in advance in order to book the facility. For information about Sample Collection, Storage and Transport for CL3 pathogen testing, refer to MBG-C0001. **CL3 pathogens in this list are: Nipah Virus, Filovirus (Z-ebola and Marburg) and Rabies Virus.**

- The prices mentioned are exclusive of VAT. Additional 5% VAT will be added to all invoices.
- Please provide all the required information on the requisition form to avoid any delay in reporting
- Please refer to **MBG-C0015 Sample Collection, Storage and Transport guidelines-Veterinary** for more information (www.mbg.ae).
- **Turn Around Time:**
 - The turnaround time may increase depending on the sample load.
 - Normal Turnaround time for pathogen Identification by PCR methodologies is within 2-3 working days, sequencing samples minimum TAT is 4 working days.
 - Samples delivered after 11:00 AM will be processed next working day (**unless urgent**).
 - **Urgent Samples:** Will be reported within 24 hours. Sequencing samples cannot be booked as urgent.

***Discounted price is applicable if more than one subtype of Influenza is requested (additional subtypes will cost 100 AED each)**

****For single stranded RNA viruses testing:**

- Samples for these assays (**except EDTA Blood/ CSF**) must be collected in RNA preservative media.
- Tissue samples must be completely submerged in RNA preservative media.
- Culture samples must be sent frozen or in RNA preservative media.
- Samples for these assays **MUST NOT** be sent on FTA cards.
- If samples for RNA virus testing are not in RNA preservative media they must be frozen immediately and transported in the same condition.

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Assay code	ASSAY NAME	Methodology	Recommended Sample Types		Cost Normal	Cost Urgent	Accreditation
			Accredited	Alternatives			
VIRUS DETECTION (Single stranded RNA viruses)**							
APB-004	Bovine viral diarrhea virus1 and 2 (BVDV 1&2)	Real-Time RT-PCR	Tissue (lung, spleen), Culture, Milk,	EDTA Blood, Semen, Swab/Secretion (Respiratory), Swab/Secretion (Rectal)	250	380	ISO 17025
APB-193	Bornavirus (specific for psittacine birds)	Real-Time RT-PCR	-	EDTA Blood, Tissue (Brain),Swab/Secretion (Respiratory), Swab/Secretion (Rectal)	250	380	Validated in-house developed assay
APN-020	Coronavirus MERS (Middle East Respiratory Syndrome)	Real-Time RT-PCR	Swab/ Secretion (Respiratory)	Culture, Serum	250	380	ISO 17025
APV-195	CoronavirusSARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2)	Real-Time RT-PCR	Swab/ Secretion (Respiratory)	Culture, Tissue (Respiratory)	250	380	ISO 17025
APE-006	Equine arteritis virus(EAV)	Real-Time RT-PCR	Swab/Secretion (Respiratory), Culture, Swab/ Secretion (Conjunctival)	EDTA Blood, Semen, Tissue	250	380	ISO 17025
APE-008	Equine infectious anaemia virus (EIAV)	Real-Time RT-PCR	-	EDTA Blood, Culture, Tissue, Semen	250	380	Validated in-house developed assay
APF-264	Feline immunodeficiency Virus (FIV)	Real-Time RT-PCR	-	EDTA Blood	250	380	Validated in-house developed assay
APF-071	Filovirus (Z-ebola and Marburg)	Real-Time RT-PCR	-	Serum, EDTA Blood, Body fluids	800		Validated kit-based assay
APF-009	Foot and mouth disease virus (FMDV)	Real-Time RT-PCR	Swab/Secretion (Respiratory), Tissue, Culture, EDTA Blood	Serum	250	450	ISO 17025
API-011	Infectious bronchitis virus (IBV)	Real-Time RT-PCR	-	Tissue (tracheal mucosa, lung, kidney, oviduct), Culture, Swab/Secretion (Respiratory), Tissue	250	450	Validated kit-based assay
API-012	Influenza A	Real-Time RT-PCR	Swab/Secretion (Respiratory), Swab/Secretion (Rectal), Tissue	Culture,	250	450	ISO 17025

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VIRUS DETECTION (Single stranded RNA viruses)**							
API-201	Influenza B	Real-Time RT-PCR	Swab/Secretion (Respiratory), Swab/Secretion (Rectal), Tissue	Culture	250	450	ISO 17025
API-014	Influenza (H9) (inclusive of InfluenzaA)	Real-Time RT-PCR	Swab/Secretion (Respiratory), Swab/Secretion (Rectal)	Culture, Tissue	250*	450	ISO 17025
API-015	Influenza(H7)(inclusive of Influenza A)	Real-Time RT-PCR	Swab/Secretion (Respiratory), Swab/Secretion (Rectal)	Culture, Tissue	250*	500	ISO 17025
API-016	Influenza(H5)(inclusive of Influenza A)	Real-Time RT-PCR	Swab/Secretion (Respiratory), Swab/Secretion (Rectal)	Culture, Tissue	250*	500	ISO 17025
API-017	Influenza (N1)(inclusive of Influenza A)	RT-PCR & Gel Electrophoresis	Swab/Secretion (Respiratory), Swab/Secretion (Rectal), Tissue	Culture	250*	450	ISO 17025
API-184	Influenza Profiling (N1 to N9 Gene)	Multi RT-PCR & Gel Electrophoresis	-	Swab/Secretion (Respiratory), Swab/Secretion (Rectal), Culture, Tissue	1000	2000	Influenza N1 Accredited 17025 Influenza N2-N9 RUO
API-185	Influenza Profiling (H1 to H16 Gene)	Multi RT-PCR & Gel Electrophoresis	-	Swab/Secretion (Respiratory), Swab/Secretion (Rectal), Culture, Tissue	1500	3000	RUO only
APN-019	Newcastle disease virus(NDV)	Real-Time RT-PCR	-	Swab/Secretion (Respiratory), Swab/Secretion (Rectal), Tissue, Culture,	250	380	Validated in-house developed assay
APN-202	Newcastle disease virus(NDV)Detection and Pathotyping	Real-Time RT-PCR	-	Swab/Secretion (Respiratory), Swab/Secretion (Rectal), Tissue, Culture, Tissue on FTA card,	250	450	Validated kit-based assay
APN-187	Nipah virus	Real-Time RT-PCR	-	EDTA Blood,CSF,Swab/Secretion (Respiratory)	800		Validated in-house developed assay
APC-278	Dromedary Camel Coronavirus UAE HKU23 (DcCoV UAE-HKU23	Real-Time RT-PCR	-	Swab (Rectal), Tissue	250	380	Validated in-house developed assay

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VIRUS DETECTION (Single stranded RNA viruses)**							
APP-101	<i>Peste-des-petits-ruminants (PPR)</i>	Real-Time RT-PCR	-	Swab/Secretion (Respiratory), Culture, EDTA Blood, Tissue	250	380	Validated in-house developed assay
APR-192	<i>Rabies virus</i>	Real-Time RT-PCR	-	Saliva, Tissue (brain)	800		Validated in-house developed assay
APW-022	<i>West Nile virus (WNV)</i>	Real-Time RT-PCR	Tissue(brain, kidney, heart, liver, intestine), Culture	-	250	380	ISO 17025
VIRUS DETECTION (DNA and Double stranded RNA viruses)							
APA-001	<i>African horse sickness virus (AHSV)</i>	Real-Time RT-PCR	EDTA Blood, Tissue (Spleen, Lung, Lymph nodes),Culture	-	250	380	ISO 17025
APA-182	<i>African horse sickness virus</i> Serotyping	Multiplex Real-Time RT-PCR	-	EDTA Blood, Tissue (Spleen, Lung, Lymph nodes), Culture	500	1000	Validated in-house developed assay
APB-003	<i>Bluetongue virus (BTV)</i>	Real-Time RT-PCR	EDTA Blood	Tissue, Culture	250	450	ISO 17025
API-010	<i>Infectious bursal disease virus (IBDV)</i>	Real-Time RT-PCR	-	Tissue, EDTA Blood, Culture, Tissue on FTA Card	250	450	Validated kit-based assay
APA-002	<i>Avian Adenovirus</i>	PCR& gel electrophoresis	-	Stool, Tissue (trachea, bursa, nasal mucosa, pharynx, lungs, kidney), Swab/Secretion (Rectal),	250	320	Validated in-house developed assay
APC-005	<i>Avian Circovirus</i> (Psittacine Beak and Feather Disease virus)	Real-Time PCR	EDTA Blood, Culture, Tissue	Feather	250	380	ISO 17025
APE-007	<i>Equine herpes virus 1 (EHV1)</i>	Real-Time PCR	Swab/Secretion (Respiratory), Tissue (Fetal/Placental),Culture	EDTA Blood	250	450	ISO 17025

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VIRUS DETECTION (DNA and Double stranded RNA viruses)							
APE-099	Equine herpes virus 4 (EHV4)	Real-Time PCR	-	Swab/Secretion (Respiratory), Tissue (Fetal/ Placental), Culture, EDTA Blood	250	450	Validated kit-based assay
APM-215	Orthopox Virus Detection & Confirmation	PCR and Sequencing	-	Tissue (Skin Lesion), Swab/secretion(Abscess/lesion)	600	-	Validated in-house developed assay
APM-216	Monkeypox Virus	Real-Time PCR	-	Tissue (Skin Lesion), Swab/secretion(Abscess/lesion)	250	380	Validated in-house developed assay
APO-021	Orthopox virus in Camel	Real-Time PCR	EDTA Blood, Tissue (Skin Lesion), Culture	-	250	380	ISO 17025
BACTERIA DETECTION							
APB-023	Brucella abortus	Real-Time PCR	Tissue (fetal, reticulo-endothelial system), EDTA Blood, Milk, Culture	Swab/Secretions (Genital/ Semen)	250	380	ISO 17025
APB-024	Brucella melitensis	Real-Time PCR	Tissue (fetal, reticulo-endothelial system), EDTA Blood, Milk, Culture	Swab/Secretions (Genital/ Semen)	250	380	ISO 17025
APB-025	Brucella species	Real-Time PCR	Tissue (fetal, reticulo-endothelial system), EDTA Blood, Milk, Culture	Swab/Secretions (Genital/ Semen)	250	380	ISO 17025
APB-026	Burkholderia mallei (Glanders)	Real-Time PCR	-	Swab/Secretion (Respiratory), Tissue (Ulcers, trachea, larynx, lymph nodes, lesions), Equine Semen, Culture	250	450	Validated in-house developed assay
APB-027	Burkholderia pseudomallei	Real-Time PCR	-	Swab/Secretion (Respiratory), Tissue (Ulcers, trachea, larynx, lymph nodes,	250	450	Validated in-house developed assay
APC-028	Campylobacter jejuni	Real-Time PCR	Culture	Stool, Swab/Secretion (Rectal), Tissue	250	450	ISO 17025

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BACTERIA DETECTION							
APC-029	<i>Campylobacter coli</i>	Real-Time PCR	Culture	Stool, Swab/Secretion (Rectal), Tissue	250	450	ISO 17025
APC-031	<i>Chlamydophila species</i>	Real-Time PCR	-	Stool, Swab/Secretion (Respiratory), Swab/Secretion (Rectal), Tissue, Culture	250	380	Validated in-house developed assay
APC-032	<i>Clostridium perfringens (toxin detection)</i>	Multi Real-Time PCR	-	Stool, Swab/Secretion (Rectal), Culture	500	1000	Validated in-house developed assay
APC-033	<i>Coxiella species (C.burnetii,C.symbiont)</i>	Real-Time PCR	Culture, EDTA Blood, Milk, Tissue	Swab/Secretion (Genital)	250	380	ISO 17025
APC-188	<i>Corynebacterium pseudotuberculosis</i>	PCR& gel electrophoresis	-	Culture, EDTA Blood, Tissue	250	380	Validated in-house developed assay
APL-034	<i>Legionella pneumophila</i>	Real-Time PCR	-	Urine, Swab/ Secretion (Respiratory), Culture, Water	250	380	Validated in-house developed assay
APL-035	<i>Legionella species</i>	Real-Time PCR	-	Urine, Swab/ Secretion (Respiratory), Culture, Water	250	380	Validated in-house developed assay
APL-036	<i>Leptospira species</i> (Pathogenic.spp)	Real-Time PCR	EDTA blood, Tissue (Liver, Lung, brain, Kidney), Culture	Urine, Milk, Cerebrospinal Fluid, Thoracic Fluid, Peritoneal Fluid	250	380	ISO 17025
APM-037	<i>Mycobacterium avium subsp. Avium</i>	Real-Time PCR	-	Tissue (Intestinal tract, liver, spleen), Stool, Culture, Tissue on FTA Card	250	400	Validated in-house developed assay
APM-038	<i>Mycobacterium species</i>	Real-Time PCR	-	Tissue, Swab/Secretion (Respiratory), Tissue on FTA Card, Culture, Stool,EDTA Blood	250	400	Validated in-house developed assay

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BACTERIA DETECTION							
APM-039	<i>Mycobacterium paratuberculosis</i>	Real-Time PCR	-	Stool, Tissue (Intestinal), Milk, Culture, Tissue on FTA Card	250	400	Validated in-house developed assay
APM-100	<i>Mycobacterium tuberculosis</i>	Real-Time PCR	-	Swab/Secretion (Respiratory), Tissue, Culture, CSF, Gastric Lavage, EDTA Blood	250	400	Validated in-house developed assay
APM-276	<i>Mycobacterium tuberculosis complex</i>	Multi Real-Time PCR	-	Swab/Secretion (Respiratory), Tissue, Culture, CSF, Gastric Lavage ,EDTA Blood	250	400	Validated in-house developed assay
APM-040	<i>Mycoplasma bovis</i>	Real-Time PCR	Culture, Milk, Swab/Secretion (Respiratory), Tissue	Swab/Secretions (Genital)	250	400	ISO 17025
APM-041	<i>Mycoplasma species</i> (General)	Real-Time PCR	Culture, Milk, Swab/Secretion (Respiratory), Tissue (esophagus,trachea,cloaca,eye, phallus)	Swab/Secretion (Organ/Abscess)	250	450	ISO 17025
APS-042	<i>Streptococcus equiequi</i> (Strangles) (AHT License)	Multiplex Real-Time PCR	-	Culture, GPF, Swab/Secretion (Respiratory), Swab/Secretion (Abscess)	500	1000	Validated in-house developed assay
APS-043	<i>Streptococcus equi equi</i> (Strangles) (Inclusive of <i>S.equizooepidemicus</i>)	Real-Time PCR	Culture, GPF, Swab/Secretion (Respiratory)	Swab/Secretion (Abscess)	400	800	ISO 17025
APS-044	<i>Streptococcus equizooepidemicus</i>	Real-Time PCR	-	Culture, GPF, Swab/Secretion (Respiratory), Swab/Secretion (Abscess)	250	380	Validated in-house developed assay
APT-045	<i>Taylorella equigenitalis</i> and <i>Taylorella asinigenitalis</i> (including differentiation)	Real-Time PCR	Culture	Swab/Secretions (Genital)	250	380	ISO 17025
APS-204	<i>Salmonella</i>	Real-Time PCR	-	Stool, Swab/Secretion (Rectal)	250	380	Validated in-house developed assay

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FUNGI/ PROTOZOA DETECTION							
APA-214	<i>Anaplasma species</i>	PCR& Gel electrophoresis	-	EDTA Blood, Culture	250	380	Validated in-house developed assay
APA-098	<i>Aspergillus fumigatus/terreus/flavus</i> (including differentiation)	Multi Real-Time PCR	-	Culture, EDTA Blood, Swab/Secretion (Respiratory), Tissue	500	1000	Validated in-house developed assay
APA-189	<i>Aspergillus fumigatus</i> : Azole-resistance profiling of <i>Cyp51A</i> gene	PCR and Sequencing	-	Culture, EDTA Blood, Swab/Secretion (Respiratory), Tissue	700	-	Validated in-house developed assay
APB-218	<i>Babesia species</i> (Excluding <i>Babesia microti</i> & <i>rodhaini</i>)	Real-Time PCR	-	EDTA Blood, Culture	250	380	Validated in-house developed assay
APB-219	<i>Babesia gibsoni</i>	Real-Time PCR	-	EDTA Blood, Culture	250	380	Validated in-house developed assay
APB-220	<i>Canine Babesia</i> (<i>Babesia canis canis</i> , <i>Babesia rossi</i> , <i>Babesia vogeli</i> , <i>Babesia gibsoni</i>)	Real-Time PCR	-	EDTA Blood, Culture	400	700	Validated in-house developed assay
APB-221	<i>Canine Babesia subtyping</i> (<i>Babesia canis canis</i> , <i>Babesiarossi</i> , <i>Babesiavogeli</i> , <i>Babesia gibsoni</i>)	PCR and Sequencing	-	EDTA Blood, Culture	700	-	Validated in-house developed assay
APE-046	Equine Piroplasmosis (<i>Theileriaequi</i> / <i>Babesiacaballi</i>)	Real-Time PCR	EDTA Blood	-	250	380	ISO 17025
APH-123	<i>Histoplasma capsulatum</i>	Real-Time PCR	-	Culture, EDTA blood, Swab/Secretion (Respiratory), Swab/Secretion (Organ/Abscess)	250	380	Validated in-house developed assay
APT-244	<i>Theileria annulata</i>	Real-Time PCR	-	Culture, Blood	250	380	Validated in-house developed assay
APT-049	<i>Trypanosoma species</i> (<i>T.evansi</i> , <i>T.brucei</i>)	Real-Time PCR	Culture, EDTA Blood	Tissue	250	380	ISO 17025