

1. General information:

- 1) Kindly refer to the service list or website (www.mbg.ae) for more details on sample type recommended for specific assay.
- 2) Pooling samples are not recommended.
- 3) Each sample should be in separate labelled container.

2. Collection instructions for Hair/ Feather:

Please collect hair/feather of each individual in separate labelled bag/container.

Hair

- Approximately 20 hair samples (neck/nape or tail) from each animal are required for processing.
- Hairs should be pulled out so as hair follicles remain intact.
- Please ensure hair samples are clean without contamination(e.g. urine, faecal)

Feather

- A minimum of six feathers are required for processing, preferable medium sized from the neck and the wing.
- Feathers must be physically plucked out. Moulded feathers cannot be used for testing.
- Very big or very small feathers located under the wings are not recommended.

3. For RNA work or RNA viral detection:

- Sample should be collected into RNA preservative media (***See table 1 for guideline**), then stored and transported to the centre within 72 hours at 4°C after collection. Sample should be completely submerged in RNA preservative media.
- If samples for RNA testing was not in RNA preservative media, they must be frozen immediately and transported at same condition.

Table 1. Guideline of using RNA preservative media :

Sample Type	Input Sample Size	Amount of RNA preservative media to Add
Animal Tissue	≤0.5 cm ³	5X volumes of the fresh sample
Swab	1 piece	Completely submerging the swab
Blood	4 ml	N/A
Bacteria & Fungi	1-1.5 million cell in pellet	1 ml, resuspension
Cultured Cells	1-1.5 million cell in pellet	1 ml, resuspension
Soil	200 mg	400 µL (2:1 ratio)
Stool	500 mg-1g	1-2 mL (2:1 ratio)
Plant	0.7 cm leaf disk (up to 6 disks) or similar volume	5X volumes of the fresh sample
Others	Follow the recommendations from a similar sample type	

4. General instruction for sample type and container:

Please collect sample of each individual following the guideline described in **table 2**.

Table 2. Different sample containers and their associated tests and sample (Types & Quantities)

Purpose(s)	Sample Type (Quantity)	Storage and transport	Time Limit to reach Lab after collection	Containers
Pathogen Identification	Blood (4mL) • except for avian tests (which is 50µL-100µL EDTA blood)	4°C.	72 hours	EDTA (Purple cap) 
	Swab (≥2) • Swab samples are to be provided with swab inside the sterile swab container but NOT in gel/Charcoal container (* See table 1 for RNA tests)	4°C.	72 hours	Swab container 
	Body fluids (≥3mL), Culture (≥3mL), Milk (≥3mL), Stool(100mg), Organ tissue (1gm), Semen (≥3mL), Urine (≥3mL), Water (10mL) FTA Card (2) Soil (2gm) Flies(2) Milk powder (10gm) Primordial germ cell (PGC) (≥3mL) (* See table 1 for RNA tests)	4°C.	72 hours	Sterile sample containers 
Lymphocytes culture, Chromosome analysis	Blood (4-5mL Heparin blood)	4°C.	24 hours	Heparin (Green cap) 
Platelet Rich Plasma (PRP) Isolation	Blood (60mL) • 8mL of ACD (anticoagulant) + 52mL whole blood.	4°C.	2 hours	60mL syringe 

Purpose(s)	Sample Type (Quantity)	Storage and transport	Time Limit to reach Lab after collection	Containers
DNA Genetic Test (e.g. Parentage, DNA typing, Avian sexing, Species Identification) (* See table 1 for RNA genetic tests)	Blood (4mL) • Except for avian tests (which is 50µL-100µL EDTA blood)	4°C.	72 hours	EDTA (Purple cap) 
	Hair (20-30 with roots)*, Feather (6-12 with roots)*	Room Temperature	1 – 2 weeks	Sterile Plastic bag or envelope  
	Egg shell (with inner membrane)	4°C.	Within a week after hatching	Sterile Plastic bag or container  
	Body fluids (≥3mL), Culture (≥3mL), Milk (≥3mL), Organ tissue (1gm), Semen (≥3mL), Urine (≥3mL), FTA Card (2) Milk powder (10gm) Primordial germ cell (PGC) (≥3mL)	4°C.	72 hours	Sterile sample containers 