

## GENERAL INFORMATION

**This is a list of Assays for Veterinary Genotype Services using STR or Sequencing methodologies.**

For other assays or further information, please see below and visit [www.mbg.ae](http://www.mbg.ae)

For Veterinary Genomic Services please, refer to MBG-C0114

For Veterinary Genetic Disorder Service, refer to MBG-C0116

For Veterinary Cytogenetic and Stem Cell Services, refer to MBG-C0113

For Veterinary Pathogen Identification Service, refer to MBG-C0103

For 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.**

### Note:

- 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](http://www.mbg.ae)).**
- **Turn Around Time**
  - The turnaround time may increase depending on the sample load.
  - Normal turnaround time for Genotyping service is within 5 working days.
  - Samples delivered after 11:00 AM will be processed next day (unless urgent)
  - **Urgent Samples** will be reported within 2 to 3 working days and will be **Charged Double**.

MBG Centre holds ISAG Rank 1.

MBG Centre demonstrated an *Absolute Genotyping Accuracy and achieved Rank 1 for various species* as per International Society for Animal Genetics (ISAG).

*Please contact us or check the website for further details.*

Assay Code	ASSAY NAME	Species	Description	Methodology	Recommended Sample Types	Cost/sample (AED)	Accreditation
<b>DNA TYPING</b>							
ATO-259	Individual Genotyping and with/without paternity verification	Equine	Individual DNA Genotyping using standard panel of markers	STR Analysis	EDTA blood, Hair, Tissue	350	In-house validated assay
		Camel			EDTA blood, Hair, Tissue	800	
		Others <sup>2</sup>			EDTA blood, Hair, Tissue, Feather	600	
ATO-262	Parentage Verification with existing genotype	Equine	Comparing genotype of a foal with existing genotype or DNA card of parents	STR Analysis	EDTA blood, Hair, Tissue	100	
		Camel				200	
		Others <sup>2</sup>				200	
ATO-261	Individual Genotyping with additional panel of markers <sup>1</sup>	Equine	Genotyping using additional panel of markers. It is performed to verify parentage in case of a single marker exclusion in the ATO-259	STR Analysis	EDTA blood, Hair, Tissue	150	
		Camel				200	
ATO-263	Identity Verification by Genotyping	Equine	One or more samples received from an individual for genotyping to match to each other, to a DNA card or an existing individual genotype.	STR Analysis	EDTA blood, Hair, Tissue	600	
		Camel			EDTA blood, Hair, Tissue	1200	
		Others <sup>2</sup>			EDTA blood, Hair, Tissue, Feather	600	
ATO-093	Database search	Equine, Camel	Genotyping and comparison with full database	STR Analysis	EDTA blood, Hair, Tissue	Contact MBG	In-house validated assay
AOT-097	Genetic Relatedness by Genotyping	Camel, Equine, Others <sup>2</sup>	Genotyped Samples are compared to each other for genetic relatedness	STR Analysis	EDTA blood, Hair, Tissue, Feather	800	

Assay Code	ASSAY NAME	Species	Description	Methodology	Recommended Sample Types	Cost/sample (AED)	Accreditation
<b>GENDER IDENTIFICATION</b>							
AOT-050	Avian Gender Determination	Avian	Gender Determination	PCR and Gel electrophoresis	EDTA Blood, Egg Shell, Feather, Tissue	270	ISO 17025
AOT-194	Mammalian Gender Determination	Camel, Equine, Donkey, Canine	Gender Determination	PCR and STR analysis	EDTA Blood	400	In-house validated assays
<b>SPECIES IDENTIFICATION</b>							
AOT-085	Mammalian species Identification ( <b>Not for Forensic purposes</b> )	Camel, Equine, Ovine/Caprine, Porcine, Bovine <sup>3</sup>	PCR based Mammalian species Identification	Multi Real-Time PCR	Milk Powder, Milk, Tissue, EDTA blood	750	ISO 17025
AOT-275	Mammalian species Identification ( <b>Not for Forensic purposes</b> )	Camel, Ovine/Caprine, Bovine <sup>3</sup>	PCR based Mammalian species Identification	Multi Real-Time PCR	Milk Powder, Milk, Tissue, EDTA blood	450	ISO 17025
<b>OTHER ASSAYS</b>							
AOT-059	Nucleic acid extraction	-	Genomic DNA or RNA Extraction (per extraction)	Automated Nucleic acid extraction	Numerous (Contact MBG)	200	In-house validated assays
AOT-061	Equine Coat Color	Equine	Sanger Sequencing	PCR and Sanger Sequencing	EDTA blood, Hair	800	

<sup>1</sup> The charge will be added when it is necessary to run additional panel of markers (according to ISAG).

<sup>2</sup> Other species (Dolphin, Falcon, Houbara, Zebra Shark, Lion, Tiger, Dog, Cat, Chicken, Alpaca, Cow, Goat, Sheep, Penguin, Hyena, Cheetah, Black tip shark, Hammer head shark).

<sup>3</sup> Bovine assay is in house validated.