

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

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:

- For Price details please contact MBG.
- 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 DNA typing services is within 5 working days.
 - Samples delivered after 11:00 AM will be processed next day (unless urgent)
 - **Urgent DNA typing 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.

Veterinary Genotype Service List

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Assay Code	ASSAY NAME	Species	Description	Methodology	Recommended Sample Types	Accreditation
DNA TYPING						
ATO-259	Individual Genotyping and with/without paternity verification	Equine	Individual DNA Genotyping using standard panel of markers	STR Analysis	EDTA blood, Hair, Tissue	In-house validated assay
		Camel			EDTA blood, Hair, Tissue	
		Others ²			EDTA blood, Hair, Tissue, Feather	
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	
		Camel				
		Others ²				
ATO-261	Individual Genotyping with additional panel of markers ¹	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	
		Camel				
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	In-house validated assay
		Camel			EDTA blood, Hair, Tissue	
		Others ²			EDTA blood, Hair, Tissue, Feather	
ATO-093	Database search	Equine, Camel	Genotyping and comparison with full database	STR Analysis	EDTA blood, Hair, Tissue	
AOT-097	Genetic Relatedness by Genotyping	Camel, Equine, Others ²	Genotyped Samples are compared to each other for genetic relatedness	STR Analysis	EDTA blood, Hair, Tissue, Feather	

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

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

² 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).

³ Bovine assay is in house validated.