



BioDNA Laboratory Services Ltd.

Scope of Accreditation

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ACCREDITATION INFORMATION - TESTING LABORATORY

Accreditation No.	005
Accreditation Certificate No.	005/12
Accredited according to	EN ISO/IEC 17025:2017
Accreditation Scope No.	S005/12
Date of issue of this Scope	Monday, 10 May 2021

SCOPE OF ACCREDITATION

Issue No: S005/12

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TESTING LABORATORY

Laboratory Locations

Location Details	Activity	Location Code
Address BioDNA Laboratory Services Ltd., LS2.1.1 and LS2.1.2, Malta Life Sciences Park, San Gwann Industrial Estate, San Gwann	DNA Tests Forensic Analysis Food and Water Microbiology Analysis Drugs of Abuse Analysis	A

Site activities performed away from the locations listed above

Location Details	Activity	Location Code
Clients	Sampling for subsequent microbiological testing, DNA analysis, Drugs of Abuse Analysis	B

NAB-Malta is a signatory for the EA MLA in testing, calibration and inspection

National Accreditation Board - Malta (NAB - MALTA)
 Mizzi House, 1st Floor, National Road, Blata l-Bajda HMR9010, Malta
 Tel No. (+356) 23952510
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Material/ Product/ Matrix Tested	Type of test, parameter/ component/ characteristic measured, range of measurement, equipment	Standard Specifications/ In-House Methods /Techniques	Loc. code
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Body Fluid Identification

Any material or object	-Forensic stain search on exhibits -Identification of human blood and semen	In house method using tests for enzyme activity: - MBDSOPTC019 - MBDSOPTC020 - MBDSOPTC091	A
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DNA Analysis

Extracted DNA	Forensic Analysis DNA profiling: - Analysis of STR loci using Powerplex 16 kit and ABI 3130, ABI3500 Genetic Analyzer - Analysis of STR loci using Investigator 24Plex QS kit and ABI3500 Genetic Analyzer - Comparison of forensic DNA results within the case	In house methods using DNA amplification (PCR), electrophoresis and genetic characterization. - MBDSOPTC045 - MBDSOPTC0118	A
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Extracted DNA	Paternity and relationship testing using Powerplex 16 kit and ABI 3130, ABI3500 Genetic Analyzer	In house methods using DNA amplification (PCR), electrophoresis and genetic characterization, - MBDSOPTC017 - MBDSOPTC018 - MBDSOPTC042	A
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Extracted DNA	DNA Sequencing of PCR products using the Sanger method using the ABI3130 Genetic Analyzer	MBDSOPTC037	A
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Extracted DNA	Human mitochondrial DNA analysis of the control region (hypervariable region 1, hypervariable region 2) and comparison of results with reference samples using the ABI3130 Genetic Analyzer	In house methods using extraction (manual / automated methods), amplification (PCR), electrophoresis and genetic characterization MBDSOPTC016	A
Extracted DNA	Quantification of Human DNA using the ABI7300 and Quantifiler Human DNA Quantification kit	MBDSOPTC119	A
<ul style="list-style-type: none">- Swabs including Buccal Swabs- Absorbent Material stained with blood or semen- Non-Absorbent Material stained with blood or semen- Non-absorbent objects (including cigarettes, Nails, chewing gum, stamps, hair and muscle)- Vaginal wash, nail scrapings, nail cuttings and urine	DNA extraction manual methods using Genomic DNA extraction Kit, Accuprep kit and automatic method Exiprep kit	MBDSOPTC0120	A
Buccal swab	Sample Collection	MBDSOPTC043	A
Bird Feathers	Bird sexing using the ZW determination system using the ABI3130 Genetic Analyzer and the using the ABI3500 Genetic Analyzer	MBDSOPTC030	A

Drugs of Abuse Analysis

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Drugs	Detection and identification of: <ul style="list-style-type: none">- Cocaine (1%)- Heroin (1%)- THC (Delta-9 tetrahydrocannabinol) (1%)- MDMA (3,4-Methylenedioxymethylamphetamine) (1%)	MBDSOPTC0126 using GC-MS	A
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Drugs	Quantification of: <ul style="list-style-type: none">- Cocaine (2%)- Heroin (2%)- THC (Delta-9 tetrahydrocannabinol) (2%)- MDMA (3,4-Methylenedioxymethylamphetamine) (2%)	MBDSOPTC0126 using GC-MS	A
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Microbiology

Food products	Enumeration of <i>Staphylococcus aureus</i> (confirmation by latex test)	MBDSOPTC031	A
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Food products	Enumeration of total coliforms	MBDSOPTC036	A
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Food products	Aerobic colony count at 30°C by the pour plate technique	EN ISO 4833-1:2013	A
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Food products	Detection of <i>Salmonella</i> spp.	EN ISO 6579-1:2017/Amd 1:2020	A
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Food products	Enumeration of Escherichia coli – colony count technique at 44°C	ISO 16649-2:2001	A		
WATERS: groundwater, drinking water, recreational water, saline water, process water.	Detection and enumeration of Legionella	ISO 11731:2017, Matrix A & B, Procedures 5 & 9 (including Annex F)	A		
WATERS: groundwater, drinking water, recreational water, saline water, process water	Total count of colonies formed in a nutrient agar culture medium after aerobic incubation at 22°C and 37°C	ISO 6222:1999	A		
WATERS: groundwater, drinking water, recreational water, saline water, process water	Detection and enumeration of Pseudomonas aeruginosa – method by membrane filtration	EN ISO 16266:2006	A		
WATERS: groundwater, drinking water, recreational water, saline water, process water	Enumeration of Escherichia coli and coliform bacteria – membrane filtration method for waters with low bacterial background flora	EN ISO 9308-1:2014/Amd 1:2016	A		
WATERS: groundwater, drinking water, recreational water, saline water, process water	Detection and enumeration of intestinal enterococci – membrane filtration method	EN ISO 7899-2:2000	A		
WATERS: groundwater, drinking water, saline water, process water	Sample collection for microbiological analysis	EN ISO 19458:2006	B		
Fungal and Yeast identification	Identification of yeasts and moulds by ITS region by PCR	Internal SOP - MBDASTC0068	A		



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Bacterial identification	Identification of bacteria by 16s rRNA PCR	Internal SOP - MBDASTC0057	A	
Faecal and environmental samples	Detection of Salmonella spp.	EN ISO 6579-1:2017/Amd 1:2020	A	

END OF SCOPE

This scope of accreditation may be revised from time to time by NAB-MALTA. To obtain an up-to-date scope contact NAB-MALTA on +356 23952510 (info@nabmalta.org.mt).

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