ISO
Certification

UQSR.
Certificate

MGM Institute of Health Sciences

MGM Educational Campus, Sector 1, Kamothe, Kalamboli, Navi Mumbai, Maharashtra- 410209, India

And hereby declares that the organization is in conformance with:

ISO 14001: 2015

For the following scope of activities:

Education Institute and Hospital Courses

Further clarification regarding the scope of this certificate and the applicability of Environmental Management standard requirements (Energy Audit/ Green Audit) may be obtained by contacting the organization

Certificate No. UQSR-1450-MIHS

Current Issue Date: 07th Oct. 2019 **Original Issue Date: 07th Oct. 2019** **Issue No. 01** **IAF Code: 37**

Expiry Date: 07th Sep. 2020 **Recertification Date: 07th Sep. 2022***

* Validity of certificate is subjected to the continued satisfactory performance during surveillance audit

Authorized By

Certification Manager

UQSR Global Private Limited

Formerly known as

Universal Quality Standards Registrar

www.uqsr.org

For information concerning validity of certificate, you can visit the site: www.uqsr.org

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

CERTIFICATE OF ACCREDITATION

MGM MEDICAL COLLEGE & HOSPITAL'S CENTRAL LABORATORY

has been assessed and accredited in accordance with the standard

ISO 15189:2012

"Medical laboratories - Requirements for quality and competence"

for its facilities at

Plot No. 1 & 2, NH-4 Junction, Sion Panvel Express Highway, Sector 1, Kamothe, Navi Mumbai, Maharashtra

in the field of

MEDICAL TESTING

Certificate Number MC-2166 *(in lieu of M-0555)*

Issue Date 26/04/2017

Valid Until 25/04/2019

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

Dr. Vandana Jain
Program Director

Anil Relia
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory MGM Medical College and Hospital's Central Laboratory, Plot No. 1 & 2, NH-4 Junction, Sion Panvel Express Highway, Sector 1, Kamothe, Navi Mumbai, Maharashtra

Accreditation Standard ISO 15189: 2012

Certificate Number MC-2166 *(in lieu of M-0555)*

Validity 26.04.2017 to 25.04.2019 Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
			MICROBIOLOGY & SEROLOGY		
1.	Serum	RA	Slide Agglutination	Semi Quantitative	NA
2.	Serum	ASO	Slide Agglutination	Semi Quantitative	NA
3.	Serum	CRP	Slide Agglutination	Semi Quantitative	NA
4.	Serum	WIDAL	Slide & Tube Agglutination	1:20 -1:1280	NA
5.	Serum	RPR	Flocculation Test	NA	NA
6.	Serum	HBsAg	Immunochromatography	NA	NA
7.	Serum	Dengue IgM, IgG Antibodies	Immunochromatography	NA	NA
8.	Serum	Dengue NS1 Antigen	Immunochromatography	NA	NA
9.	Sputum, Urine, Body Fluids, Pus, Stool, CSF, Endo-tracheal Secretions, Central Venous Catheter Tip & Others	Aerobic Culture & Sensitivity	Conventional	Growth-No Growth	NA
			Disk Diffusion-Modified Kirby-Bauer Method	Sensitive-Intermediate-Resistant	
10.	Blood	Aerobic Culture & Sensitivity	Conventional	Growth-No Growth	NA
			Disk Diffusion-Modified Kirby-Bauer Method	Sensitive-Intermediate-Resistant	
11.	Sputum, Urine, Body Fluids, Pus, CSF	Gram Stain	Microscopy	Gram Positive Cocci/ Bacilli Seen/Not Seen	NA
				Gram Negative Cocci/ Bacilli Seen/Not Seen	
12.	Sputum, Urine, Body Fluids, Pus, CSF	Ziehl-Neelsen Stain	Microscopy	Acid Fast Bacilli Seen/ Not Seen	NA

K. Udaya Bhaskhar
Convenor

Dr. Vandana Jain
Program Director

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Validity 26.04.2017 to 25.04.2019 **Last Amended on** --

Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
8.	Whole Blood	Differential Leucocyte Count (DLC) 1. Neutrophils 2. Lymphocytes 3. Monocytes 4. Eosinophils 5. Basophils	Electrical Impedance Laser Light scattering and Dye Bonding	 0-100% 0-100% 0-100% 0-100% 0-100%	 4.6 8.5 14.7 18.9 16.3
9.	Whole Blood	Peripheral Smear (Morphology)	Microscopy by Leishman/ Field's stain	NA	NA
10.	Whole Blood	Platelet Count	Electrical impedance laser lightscattering and Dye Bonding D.C. Detection Method	5.03983 x10^3/uL 10000-000 /cu.mm	13.6 6.7
11.	Whole Blood	Erythrocytes Sedimentation Rate	Westergren's Method-(Manual)	1-150 mm/hour	NA
12.	Whole Blood	Reticulocytes Count	Supravital Staining (Methylene Blue)	NA	NA
13.	Whole Blood	Malarial Parasites	Staining of Thick & Thin Smear	NA	NA
14.	Whole Blood	Malaria Antigen	Ag-Ab Immunoassay [HRP 2 for p. Falciparum and PAN specific for pLDH for Plasmodiun species (P. Falciparum, P. Vivax, P. malariae, P. Ovale)]	NA	NA

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Certificate Number MC-2166 *(in lieu of M-0555)* Page 1 of 5

Validity 26.04.2017 to 25.04.2019 Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
			CLINICAL BIOCHEMISTRY		
1.	Plasma / Serum Body Fluid	Glucose	Hexokinase	40 - 800 mg/dl	4.3
2.	Serum	Triglycerides	GPO PAP (Enzyme Colour Test)	37-900 mg/dl	4.5
3.	Serum	Cholesterol- Total	CHOD.POD (Enzyme Colour Test)	56-350 mg/dl	3.3
4.	Serum	Cholesterol- HDL	CHOD.POD (Enzyme Colour Test, Immuno-Inhibition)	13-90 mg/dl	5.3
5.	Serum	Cholesterol- LDL	Calculations	NA	NA
6.	Serum	VLDL Cholesterol	Calculations	NA	NA
7.	Serum / Plasma	Urea	Urease, GLDH kinetic	09-2000 mg/dl	3.2
8.	Serum	AST / SGOT	IFCC without Pyridoxal phosphate (Kinetic UV Test)	6-8419U/L	3.7
9.	Serum/ Plasma	Creatinine	Modified Jaffe' / Kinetic Method (Kinetic Colour Test)	0.1-14 mg/dl	4.5
10.	Serum	LDH	L->P; IFCC 37^0	4-4750U/L	6.6
11.	Serum	Uric acid	Uricase,POD (Enzyme Colour Tests)	1.5-37 mg/dl	3.3
12.	Seum	Calcium	Arsenoazo III	2.0-12 mg/dl	2.5
13.	Serum	Phosphorus	Molybdate UV	1.4-16.5 mg/dl	5.0
14.	Serum / Body Fluids	Total Protein	Biuret End PT	2-10 gm/dl	4.4
15.	Serum	Albumin	BCG	0.6-4 gm/dl	2.5
16.	Serum	Globulin	Calculations	NA	NA
17.	Serum	Bilirubin (Total)	DPD Colour Test	0.01-60 mg/dl	3.0
18.	Serum	Bilirubin (Direct)	DPD Colour Test	0.01-39 mg/dl	5.4

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Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
19.	Serum	Bilirubin (Indirect)	Calculation	NA	NA
20.	Serum	Amylase	pNPG3 (kinetic Colour Test)	10-2365U/L	3.7
21.	Serum	CPK-NAC	IFCC (Kinetic Colour Test)	20-3000 U/L	5.1
22.	Serum	Alkaline Phosphatase	IFCC (Kinetic Colour Test with AMP buffer)	15-650 U/L	7.7
23.	Serum	ALT/ SGPT	IFCC without Pyridoxal phosphate (Kinetic UV test)	7-6100U/L	6.1
24.	Serum	Iron	Colorimetric without PPT	10-1000 µg/dl	4.5
25.	Serum	UIBC	Fe-UIBC (Saturation with Iron)	55-450 µg/dl	7.0
26.	Serum	Sodium	ISE by Indirect Method	48-167 meq/L	2.5
27.	Serum	Potassium	ISE by Indirect Method	1.6-9.0 meq/L	3.2
28.	Serum	T3	Electrochemiluminiscence	0.195-6.5 ng/ml	7.1
29.	Serum	T4	Electrochemiluminiscence	0.420-24.86 µg/dl	10.0
30.	Serum	FT3	Electrochemiluminiscence	0.26-21pg/ml	8.4
31.	Serum	FT4	Electrochemiluminiscence	0.023-7.76 ng/dl	10.5
32.	Serum	TSH	Electrochemiluminiscence	0.005-100 µIU/L	4.6
33.	Serum	FSH	Electrochemiluminiscence	0.100-200 mIU/ml	6.2
34.	Serum	LH	Electrochemiluminiscence	0.100-200 mIU/ml	8.2
35.	Serum	Prolactin	Electrochemiluminiscence	1.00-10,000 µIU/ml	10.8
36.	Serum	Vit D	Electrochemiluminiscence	0-70 ng/ml	12.3
37.	Serum	Vit B12	Electrochemiluminiscence	30-2000 pg/ml	8.1

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Accreditation Standard ISO 15189: 2012

Certificate Number MC-2166 *(in lieu of M-0555)*

Validity 26.04.2017 to 25.04.2019 Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
			HAEMATOLOGY & IMMUNOHAEMATOLOGY		
1.	Whole Blood	Haemoglobin	Electrical Impedance Laser Light Scattering and Dye bonding	CN free0-23 gm/dl CN: 0-22.5 gm/dl	1.5
			Non Cyanide (Oxyhaemoglobin Method)	0.21-25 gm/dl	2.5
2.	Whole Blood	RBC Count	Electrical Impedance Laser Light Scattering and Dye Bonding	0-6.76 x 10^4/µl	2.5
			D.C. Detection Method	0.3 -7.0 million/cu.mm	1.5
3.	Whole Blood	Hematocrit (PCV)	Calculated from the RBC count & MCV	NA	2.1
			Calculation of RBC pulse height	NA	2.1
4.	Whole Blood	Mean Corpusc. Volume (MCV)	Low Angle Light Scatter	NA	1.0
			Mathematical Calculation	NA	1.1
5.	Whole Blood	Mean Corpuscular Haemoglonin (MCH)	Mathematical Calculation	NA	1.7
			Mathematical Calculation	NA	2.8
6.	Whole Blood	Mean Corpuscular Haem. Concent. (MCHC)	Mathematical Calculation	NA	2.1
			Mathematical Calculation	NA	3.1
7.	Whole Blood	Total Leucocyte Count (TLC)	Electrical Impedance Laser Light scattering and Dye Bonding	0.02 – 409.55 x 10^3/µL	4.4
			D.C. Detection Method	1000-999000/cu.mm	3.1

K. Udaya Bhaskhar
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Program Director

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CERTIFICATE OF ACCREDITATION

MGM'S CENTRAL PATHOLOGY LABORATORY

has been assessed and accredited in accordance with the standard

ISO 15189:2012

"Medical laboratories - Requirements for quality and competence"

for its facilities at

Mahatma Gandhi Mission Hospital, N-6, CIDCO, Aurangabad, Maharashtra

in the field of

MEDICAL TESTING

Certificate Number	MC-2839		
Issue Date	29/06/2018	**Valid Until**	28/06/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

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Anil Relia
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory MGM's Central Pathology Laboratory, Mahatma Gandhi Mission Hospital, N-6, CIDCO, Aurangabad, Maharashtra

Accreditation Standard ISO 15189: 2012

Certificate Number MC-2839 **Page 1 of 3**

Validity 29.06.2018 to 28.06.2020 **Last Amended on** --

CLINICAL BIOCHEMISTRY

Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
1.	Serum/Plasma	Albumin	Bromocresil Green (BCG)	1.00 – 6.00 g/dl	2.9
2.	Serum/Plasma	Alkaline Phosphatase	PNPP, AMP Buffer-Vitros	20.00 -1500 U/L	4.3
3.	Serum/Plasma	ALT	UV with P5P - Vitros	6.00 – 100.0 U/L	8.6
4.	Serum/Plasma	Amylase	Amylopectin, Colorimetric - Vitros	30 – 1200 U/L	8.0
5.	Serum/Plasma	AST	Enzymatic, Colorimetric	3.00 - 750 U/L	4.1
6.	Serum/Plasma	Bilirurbin Total	Dual Wavelength-Vitros	0.10 - 27.00 mg/dl	7.3
7.	Serum/Plasma	Bilirurbin Direct	Calculated	0.10 - 27.00 mg/dl	NA
8.	Serum/Plasma	Cholesterol HDL	Direct Measure, PTA/Mgcl2-Vitros	5.00 – 110.00 mg/dl	4.1
9.	Serum/Plasma	Cholesterol Total	Cholestrol Oxidase, Esterase, Peroxidase	50.00 – 325.00 mg/dl	2.1
10.	Serum/Plasma	Creatinine	Enzymatic-Vitros IFCC	0.05 – 14.00 mg/dl	1.9
11.	Serum/Plasma	LDL Cholesterol	Calculated	NA	NA
12.	Serum/Plasma	VLDL Cholesterol	Calculated	NA	NA
13.	Serum/Plasma	Total To HDL Cholesterol Ratio	Calculated	NA	NA
14.	Serum/Plasma	Globulin	Calculated	NA	NA
15.	Plasma	Glucose	Glucose Oxidase, H2O2 (TRinder)	20.00 – 625.00 mg/dl	5.2
16.	Serum/Plasma	Bilirurbin Indirect	Dual Wavelength-Vitros	0.01 - 27.00 mg/dl	7.9
17.	Serum/Plasma	Calcium	Arsenazo III-Vitros	1.00 – 14.00 mg/dl	1.8
18.	Serum/Plasma	Lipase	Enzymatic with Colipase	10.00 – 2000 U/L	6.7
19.	Serum/Plasma	Phosphorus	Phosphomolybdate Reduction	0.50 – 13.00 mg/dl	3.2
20.	Serum/Plasma	Protein Total	Biurest Endpoint	2.00 – 11.00 g/dl	2.6
21.	Serum/Plasma	Urea/ Bun	Urease Colorimetric	2.00 – 120.00 mg/dl	3.7
22.	Serum/Plasma	Triglycerides	Enzymatic Endpoint	10.00 – 525 mg/dl	1.9
23.	Serum/Plasma	Uric Acid	Uricase Colorimetr	0.5 – 17.00 mg/dl	3.1
24.	Serum/Plasma	Creatine Kinase(CK)	Rosalki, Other Modified VIT	20.00 – 1600 U/L	3.7
25.	Serum/Plasma	LDH	L to P IFCC ref.Proc.Cal	100 – 2150 U/L	4.2

Syed Tahira Rizvi
Convenor

Ritu Kulshrestha
Program Manager

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SCOPE OF ACCREDITATION

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Accreditation Standard ISO 15189: 2012

Certificate Number MC-2839

Validity 29.06.2018 to 28.06.2020 **Last Amended on** --

Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
26.	Serum/Plasma	Sodium	ISE	20 – 250 mmol/L	1.9
27.	Serum/Plasma	Potassium	ISE	0.2 – 20 mmol/L	3.0
28.	Serum/Plasma	T3	CLIA	0.103 – 12.00 ng/ml	14.9
29.	Serum/Plasma	T4	CLIA	0.405 – 24.9 ug/dl	14.7
30.	Serum/Plasma	TSH	CLIA	0.015 – 100 mIU/L	19.0
31.	Serum/Plasma	FT3	CLIA	0.50 – 22.8 pg/mL	18.7
32.	Serum/Plasma	FT4	CLIA	0.07 – 6.99 ng/dL	25.4
33.	Serum/Plasma	Ferritin	CLIA	0.299 – 1000 ng/mL	12.0
34.	Serum/Plasma	Vitamin B12	CLIA	159 – 1000 pg/mL	13.6
35.	Serum/Plasma	Folic Acid (Folate)	CLIA	0.34 – 20.0 ng/mL	23.9
36.	Serum/Plasma	Vitamin D3	CLIA	8.0 – 150 ng/mL	28.2
37.	Serum/Plasma	CEA	CLIA	0.31 – 400 ng/mL	11.9
38.	Serum/Plasma	CA - 125	CLIA	5.5 – 1000 U/mL	30.1
39.	Serum/Plasma	CA – 19.9	CLIA	1.4 – 1000 U/mL	12.6
40.	Serum/Plasma	AFP	CLIA	0.476 – 500 IU/mL	14.3
41.	Serum/Plasma	Total PSA	CLIA	0.010 – 100 ng/mL	17.9
42.	Serum/Plasma	Beta HCG	CLIA	2.39–15,000 mIU/mL	27.5
43.	Serum/Plasma	FSH	CLIA	0.66 – 200 mIU/ml	20.2
44.	Serum/Plasma	LH	CLIA	0.216 – 200 mIU/ml	14.7
45.	Serum/Plasma	Prolactin	CLIA	30.8–7000 mIU/ml	39.5

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HAEMATOLOGY & IMMUNOHAEMATOLOGY

Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
1.	Whole Blood	Hemoglobin	Photometric	0 – 22.5 gm/dl 0 – 30 gm/dl	2.6
2.	Whole Blood	WBC Count	Optical	0.02 – 400 x 10^3/ul 0.3 – 99.9 x 10^3/ul	10.0
3.	Whole Blood	RBC	Optical	0 – 7.0 x 10^5/cmm 0.2 – 9.99 x 10^6/cmm	5.8
4.	Whole Blood	HCT	Calculated	100 %	8.5
5.	Whole Blood	MCV	Calculated	200 %	5.2
6.	Whole Blood	MCH	Calculated	0.00 – 99.00 pg	6.8
7.	Whole Blood	MCHC	Calculated	0.00 – 99.00 gldl	8.9
8.	Whole Blood	Platelet Count	Optical	5.0 – 3500 x 10^3/uL	9.3
		Polymorphs	Flowcytometry	0-100 %	5.7
		Lymphocytes	Flowcytometry	0-100 %	6.4
		Monocytes	Flowcytometry	0-100 %	6.9
		Eosinophils	Flowcytometry	0-100 %	23.0
9.	Whole Blood	Peripheral Smear For Morphology	Manual Microscopy (Field/Leishman Stain)	NA	NA

Syed Tahira Rizvi
Convenor

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Program Manager