



**National Accreditation Board for  
Testing and Calibration Laboratories**  
(A Constituent Board of Quality Council of India)



## CERTIFICATE OF ACCREDITATION

**ASRAM CENTRAL LABORATORY,  
ALLURI SITARAMA RAJU ACADEMY OF  
MEDICAL SCIENCES (ASRAM)**  
has been assessed and accredited in accordance with the standard

**ISO 15189:2012**

"Medical laboratories - Requirements for quality and competence"

for its facilities at

Malkapuram, West Godavari, NH-5, Vijayawada Visakhapatnam Road,  
Eluru, Andhra Pradesh  
in the field of

## MEDICAL TESTING

**Certificate Number** MC-2501

**Issue Date** 18/12/2017

**Valid Until** 17/12/2019

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](http://www.nabl-india.org))

Signed for and on behalf of NABL

Dr. Vandana Jain  
Program Director



89076970300010000282

Anil Relia  
Chief Executive Officer



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## SCOPE OF ACCREDITATION

**Laboratory** ASRAM Central Laboratory, Alluri Sitarama Raju Academy of Medical Sciences (ASRAM), Malkapuram, West Godavari, NH-5, Vijayawada Visakhapatnam Road, Eluru, Andhra Pradesh

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Sl.	Product / Material of Test	Specific Test Performed	Test Method	Range of Testing / Limits of Detection	CV%
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### CLINICAL BIOCHEMISTRY

1.	Serum	Albumin	Dye Binding Bromo Cresol Green	1.5 – 6.0 g/dl	6.4
			BCG Dye End Point	0.1 – 6 g/dl	6.4
2.	Serum	Alkaline Phosphatase	PNPP Kinetic	5- 1500 U/L	12.1
			Tris Carbonate Buffer, Kinetic	0.1 -1000IU/L	13.1
3.	Serum	Amylase	CNPG-3	10 - 2000 U/L	4.9
			E-PNG-GT Blocked Method, Kinetic	10 -2000IU/L	7.47
4.	Serum	Bilirubin (Total)	Diazotization,DPD	0.1 - 30.0 mg/dl	10.4
			Diazo Method, End point	0.1 – 20mg/dl	12.8
5.	Serum	Bilirubin (Direct)	Diazotization,DPD	0.1 – 10.0 mg/dl	11.3
			Diazo Method, End Point	0.1 – 20mg/dl	17.1
6.	Serum	Bilirubin (indirect)	Calculated	NA	NA
7.	Serum	Calcium	Arsenazo-III	4 – 20.0 mg/dl	4.3
			O-Cresolphthalein End Point	0.1 – 20 mg/dl	6.2
8.	Serum	Chloride	ISE Indirect	50 – 200 mmol/L	4.0
			ISE Direct	25 – 200 mmol/L	0.8
9.	Serum	Cholesterol Total	CHO-POD	20.0 – 700 mg/dl	5.0
			CHOD-PAP, End point	0.1 – 600 mg/dl	12.9
10.	Serum	Cholesterol (HDL)	CHE & CHO-POD Method	2.00 - 180 mg/dl	5.3
			Phosphotungstic Acid , End Point	1.0 - 125 mg/dl	6.2
11.	Serum	Cholesterol (LDL)	Calculated	NA	NA
12.	Serum	Creatinine	Alkaline Picrate Jaffe's Method	0.2 – 25.0 mg/dl	8.0
			Jaffe's Method Initial Rate	0.1 – 25 mg/dl	3.8
13.	Serum	Globulin	Calculated	NA	NA

*Ashok Kumar Gogna*

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*Dr. Vandana Jain*

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14.	Flouride Plasma/ Serum	Glucose	Hexokinase	10 – 800 mg/dl	6.1
			GOD POD, End Point	0.1- 500 mg/dl	13.8
15.	Serum	Iron	TPTZ (Color Test)	10 - 1000 µg/dL	5.7
16.	Serum	Magnesium	Colour Test (Xylidyl Blue)	1.22 - 2.3 mg/dl	10.1
17.	Serum	Phosphorous	Phospho Molybdate, UV	1.0 - 20 mg/dL	6.6
18.	Serum	Potassium	ISE Indirect	1.0 - 10.0 mmol/L	3.6
			ISE Direct	0.2 - 40 mmol/L	0.8
19.	Serum	Protein (Total)	Biuret, Colorimetric Endpoint	3.0 - 12.0 g/dl	5.8
			Biuret Method, End point	0.1 - 15 g/dl	8.5
20.	Serum	SGOT (AST)	UV with P5P - IFCC	3.0 - 1000 U/L	4.6
			IFCC kinetic method	0.1 - 450 IU/L	11.3
21.	Serum	SGPT (ALT)	UV with P5P - IFCC	3.0 - 500 U/L	6.7
			IFCC Kinetic Method	0.1 - 450 IU/L	12.9
22.	Serum	Sodium	ISE Indirect	50 - 200 mmol/L	3.2
			ISE Direct	20 - 200 mmol/L	1.0
23.	Serum	Triglycerides	GPO - PAP	10.0 -1000 mg/dl	7.0
			GPO-Trindermethod	0.1 - 1000mg/dl	17.6
24.	Serum	Urea	Urease UV Kinetic	5.0 - 300 mg/dl	7.7
			GLDH-Urease Method, Initial Rate	0.1 - 250mg/dl	7.2
25.	Serum	Uric Acid	Uricase Colorimetric	1.5 - 30.0 mg/dl	5.4
			Modified Trinder Method	0.1 - 25mg/dl	7.8
26.	Serum	Triiodothyronine (T3)	CLIA	0.1 – 8.0 ng/mL	11.5
27.	Serum	Thyroxine (T4)	CLIA	0.50 – 30.0 µg/dL	13.7
28.	Serum	Thyroid Stimulating Hormone (TSH)	CLIA	0.01 - 100 µIU/mL	9.4

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### CLINICAL PATHOLOGY

1.	Urine	Physical Examination Colour, Appearances, pH, Specific Gravity	Manual Strip Test	Qualitative	NA
2.	Urine	Chemical Examination Ketone Bodies	Strip Method (Nitroprusside Method)	Qualitative	NA
3.	Urine	Blood	Peroxidase Method / Microscopy	Qualitative	NA
4.	Urine	Bilirubin	Diazo Method / Fouchet's Method	Qualitative	NA
5.	Urine	Urobilinogen	Ehrlich Reaction	Qualitative	NA
6.	Urine	Glucose	Double Sequential Enzymatic / GOD - POD	Qualitative	NA
7.	Urine	Protein	Protein Error of Indication	Qualitative	NA
8.	Urine	Microscopy	Microscopy of Sediment	Descriptive	NA

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### HAEMATOLOGY & IMMUNOHAEMATOLOGY

1.	EDTA Blood	Haemoglobin	SLS - Hb Method / Spectrophotometry	0.1-26.0 g/dl	1.6
2.	EDTA Blood	RBC Count	Flowcytometry Light Scattering/ Electrical Impedence	0.00 - 8.6 x 10 <sup>6</sup> /cumm	1.5
3.	EDTA Blood	Platelet Count	Flowcytometry Light Scattering/ Electrical Impedence	1.0 - 5000 x 10 <sup>3</sup> /μL	7.7
4.	EDTA Blood	WBC Count	Flowcytometry Light Scattering/ Impedence	0.1 - 440 x 10 <sup>3</sup> / μL	2.8
5.	EDTA Blood	HCT	Autocalculation by RBC & MCV	0.1 - 75.0%	1.6
6.	EDTA Blood	MCV	Mean of RBC volume Histogram	NA	1.1
7.	EDTA Blood	MCH	Autocalculation by Haemoglobin and RBC	NA	1.3
8.	EDTA Blood	MCHC	Autocalculation by Haemoglobin and PCV	NA	1.6
9.	EDTA Blood	RDW - CV	Autocalculation by RBC Volume Histogram and MCV	NA	1.1
10.	EDTA Blood	Neutrophils	Flowcytometry / Microscopy	0-100 %	3.4
11.	EDTA Blood	Lymphocytes	Flowcytometry / Microscopy	0-100 %	3.4
12.	EDTA Blood	Monocytes	Flowcytometry / Microscopy	0-100%	8.5
13.	EDTA Blood	Eosinophils	Flowcytometry / Microscopy	0-100%	10
14.	EDTA Blood	Basophils	Flowcytometry / Microscopy	0-100 %	8.0

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15.	EDTA Blood	Peripheral Smear	Microscopy Leishman's Stain	Descriptive	NA
16.	EDTA Blood	Reticulocyte Count	Brilliant Cresyl Blue	0.1 – 100 %	NA

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### MICROBIOLOGY & SEROLOGY

1.	Serum	Hepatitis B surface Antigen (HbsAg)	Rapid Immuno Chromatography	Qualitative Reactive/Non Reactive	NA
2.	Serum	Hepatitis C Virus Antibodies (HCV)	Immune Complex Dot (TRIDOT)	Qualitative Reactive/Non Reactive	NA
3.	Serum	HIV I & II Antibodies	Immune Complex Dot (TRIDOT)	Qualitative Reactive/Non Reactive	NA
4.	Serum	HIV 1 & II Antibodies	Rapid Immuno Chromatography- (Retroquic)	Qualitative Reactive/Non Reactive	NA
5.	Serum	HIV 1 & II Antibodies	COMB AIDS - Dot Immuno Assay	Qualitative Reactive/ Non Reactive	NA
6.	Serum	Toluidine Red Unheated Serum Test	Slide Flocculation	Qualitative Reactive/ Non Reactive	NA
7.	Serum	Widal Test	Slide/ Tube Agglutination	TO < 1:80 Negative TH < 1:160 Negative TO > 1:80 Positive TH > 1:160 Positive AH < 1:40 Negative BH < 1:40 Negative AH > 1:40 Positive BH > 1:40 Positive	NA
8.	Serum	Anti Streptolysin 'O' (ASO)	Latex Slide Agglutination	Qualitative Negative/Positive	NA
9.	Serum	C-Reactive Protein	Latex Slide Agglutination	Qualitative Negative/Positive	NA
10.	Serum	Rheumatoid Factor	Latex Slide Agglutination	Qualitative Negative/Positive	NA
11.	Serum	Dengue IgG, IgM	Rapid Immuno Chromatography	Qualitative Negative/Positive	NA

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12.	Serum	Rapid Malaria Antigen F line – PfLDH for <i>P.Falciparum</i> P line –PLDH for P-Vivax , P.Malariae & <i>P.Ovale</i>	Rapid Immuno Chromatography	Qualitative Reactive/Non-Reactive	NA

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