

**Dr. Vinay Chopra**  
 MD (Pathology & Microbiology)  
 Chairman & Consultant Pathologist

**Dr. Yugam Chopra**  
 MD (Pathology)  
 CEO & Consultant Pathologist

<b>NAME</b>	: Mrs. SUNITA RANI	<b>PATIENT ID</b>	: 1630859
<b>AGE/ GENDER</b>	: 59 YRS/FEMALE	<b>REG. NO./LAB NO.</b>	: 012410010023
<b>COLLECTED BY</b>	: SURJESH	<b>REGISTRATION DATE</b>	: 01/Oct/2024 09:07 AM
<b>REFERRED BY</b>	:	<b>COLLECTION DATE</b>	: 01/Oct/2024 09:19AM
<b>BARCODE NO.</b>	: 01518093	<b>REPORTING DATE</b>	: 04/Oct/2024 06:05PM
<b>CLIENT CODE.</b>	: KOS DIAGNOSTIC LAB		
<b>CLIENT ADDRESS</b>	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	Biological Reference interval
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### IMMUNOPATHOLOGY/SEROLOGY

#### EXTRACTABLE NUCLEUR ANTIGENS (ENA)/ANTI NUCLEUR ANTIBODY (ANA) PROFILE: QUANTITATIVE IgG

U1-SnRNP/Sm <i>by IMMUNOBLOT</i>	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
Sm <i>by IMMUNOBLOT</i>	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
SS-A/RO 60 <i>by IMMUNOBLOT</i>	37 <sup>H</sup>	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
SS-A/RO 52 <i>by IMMUNOBLOT</i>	47 <sup>H</sup>	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
SS-B/LA <i>by IMMUNOBLOT</i>	19 <sup>H</sup>	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
Scl-70 <i>by IMMUNOBLOT</i>	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
PM-Scl <i>by IMMUNOBLOT</i>	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
Jo-1 <i>by IMMUNOBLOT</i>	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
CENTROMERE B <i>by IMMUNOBLOT</i>	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
PCNA <i>by IMMUNOBLOT</i>	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0



  
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ds-DNA by IMMUNOBLOT	21 <sup>H</sup>	IU/mL	POSITIVE: >12.0 NEGATIVE: 0.0 - 20.0 INTERMEDIATE: 20.0 - 25.0 POSITIVE: >25.0
NUCLEOSOMES by IMMUNOBLOT	21 <sup>H</sup>	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
HISTONES by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
RIBOSOMAL-P0-PROTEIN by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
AMA-M2 by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
PL-7 by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
PL-12 by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
SRP-54 by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
Mi-2 by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
Ku by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0
Sp100 by IMMUNOBLOT	<6	AU/mL	NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0



  
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Gp210 by IMMUNOBLOT	<6	AU/mL	POSITIVE: >12.0 NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0
F-Actin by IMMUNOBLOT	<6	AU/mL	POSITIVE: >12.0 NEGATIVE: 0.0 - 6.0 INTERMEDIATE: 6.0 - 12.0 POSITIVE: >12.0

**INTERPRETATION:**

The blot includes anti nuclear antibodies of IgG type detected in human sera against Sm,RNP, Sm/RN9, SSA/Ro60kD, SSB(La), Jo-1(histidyl-t-RNA synthetase), Scl-700(DNA topoisomerase I) PM-Scl 100, Ku, CENP-A/B(centromere A/B proteins), PCNA and Ribosome P0 antigens. The blot is carried out on automated dot blot analyzer (Blue-Diver) and offers reproducibility of > 90% and following sensitivity and specificity:

ANTIGEN	SENSITIVITY	SPECIFICITY	DISEASE ASSOCIATED WITH PREVELANCE
Nucleosome	67%	98%	Early marker of SLE (50-90%)
Ds-DNA	100%	100%	SLE (40-90%)
Histones	100%	100%	Drug induced LE (50-90%)
Sm	100%	98%	SLE (20-40 %)
RNP	100%	98%	MCTD (95-100%), SLE (30-70%), RA (03%)
Sm/RNP	99%	100%	Same as Sm and/or RNP
SSA/Ro 60KD	100%	100%	Sjogren's syndrome (40-95%), SLE (20-60%) and Neonatal LE (100%)
SSB	100%	99%	Sjogren's syndrome (40-95%), SLE (10-20%)
Scl-70	100%	100%	Sclerodema (25-59%-all, 70%-diffuse), CREST (10%)
Ku	100%	100%	PM/DM & Progressive Systemic Sclerosis (30-55%, SLE (10%)
PM-sd (PM-1)	100%	100%	PM/DM/Overlap syndrome (50-70%), Progressive Systemic Sclerosis (5-10%)
MI-2	100%	100%	Specific for Dermatomyositis
Jo-1	100%	100%	Polymyositis (23-36%)
PL-7	100%	100%	Idiopathic myositis (2-3%)
PL-12	100%	100%	Idiopathic myositis (2-3%)
SRP	100%	100%	Polymyositis (05% and 18% in Jo-1 negative patients)
Ribosome PO	100%	100%	SLE (10-20%)
CENP-A/B	100%	99%	Progressive Systemic Sclerosis (80-95%), CREST (57-82%)
PCNA	100%	100%	SLE (03%)
Sp100	100%	100%	Progressive Systemic Sclerosis (80-95%), CREST (57-82%)
Gp210	100%	100%	Primary Biliary Cirrhosis
M2 recomb	100%	98%	Primary Biliary Cirrhosis
F-actin	97%	98%	Autoimmune hepatitis (AIH type 1 & 4)



  
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**CLINICAL PATHOLOGY**

**PROTEINS: 24 HOURS URINE**

URINE VOLUME: 24 HOUR	1400	mL	
by SPECTROPHOTOMETRY			
PROTEINS: 24 HOURS URINE	200.34 <sup>H</sup>	mg/ 24 HOURS	25 -160
by BIURET, SPECTROPHOTOMETRY			

**INTERPRETATION:**

TYPES OF PROTEINURIA	TOTAL PROTEINS IN mg/24 HOURS	CONDITIONS
MINIMAL PROTEINURIA:	150 - 500 mg/24 hours	Chronic pyelonephritis, Chronic Interstitial Nephritis, Renal Tubular disease, Postural
MODERATE PROTEINURIA:	500 - 1000 mg/24 hours	Nephrosclerosis, Multiple Myeloma, Toxic Nephropathy, Renal Calculi
HEAVY PROTEINURIA:	1000 - 3000 mg/24 hours	Nephrotic Syndrome, Acute Rapidly Progressive & Chronic Glomerulonephritis, Diabetes mellitus, Lupus erythematosus, Drugs like Pencillamine, Heavy metals like Gold & Mercury.

**NOTE:**


- Excretion of total protein in individuals is highly variable with or without kidney disease.
- Conditions affecting protein excretion other than kidney disease are urinary tract infection, diet, menstruation & physical activity.

**COMMENT:**

- Diagnosis of kidney disease and response to therapy is usually obtained by quantitatively analyzing the amount of protein excreted in urine over a 24 hour period.

\*\*\* End Of Report \*\*\*



  
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