



0 9001 : 2008 CERTIFIED			EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME : Ma	ster. EKASBIR			
AGE/ GENDER : 4 Y	RS/MALE	PA	ATIENT ID	: 1702525
COLLECTED BY :		RI	EG. NO./LAB NO.	: 012412180044
REFERRED BY :		RI	EGISTRATION DATE	: 18/Dec/2024 02:46 PM
	522643		DLLECTION DATE	: 18/Dec/2024 02:46PM
	S DIAGNOSTIC LAB		EPORTING DATE	: 18/Dec/2024 02:57PM
CLIENT ADDRESS : 634	49/1, NICHOLSON ROAD, AMB/	ALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		НАЕМАТ	TOLOGY	
	COMP		D COUNT (CBC)	
RED BLOOD CELLS (RBC	CS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.7 <sup>L</sup>	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RBC)	COUNT	4.25	Millions	cmm 3.50 - 5.50
by HYDRO DYNAMIC FOCUSII	NG, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUME () by CALCULATED BY AUTOMA	PCV) ATED HEMATOLOGY ANALYZER	33.8 <sup>L</sup>	%	35.0 - 49.0
MEAN CORPUSCULAR VO	LUME (MCV) ATED HEMATOLOGY ANALYZER	79.5 <sup>L</sup>	fL	80.0 - 100.0
MEAN CORPUSCULAR HA	AEMOGLOBIN (MCH)	25.2 <sup>L</sup>	pg	27.0 - 34.0
	TED HEMATOLOGY ANALYZER	31.7 <sup>L</sup>	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMA	TED HEMATOLOGY ANALYZER		0	
RED CELL DISTRIBUTION by CALCULATED BY AUTOMA	NWIDTH (RDW-CV)	14.1	%	11.00 - 16.00
RED CELL DISTRIBUTION	N WIDTH (RDW-SD)	41.8	fL	35.0 - 56.0
MENTZERS INDEX	NTED HEMATOLOGY ANALYZER	18.71	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		26.4	RATIO	BETA THALASSEMIA TRAIT:<=
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: >
				65.0
WHITE BLOOD CELLS (V				
TOTAL LEUCOCYTE COUN by FLOW CYTOMETRY BY SF		14030	/cmm	5000 - 15000
NUCLEATED RED BLOOD	CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PART HEM	ATOLOGY ANALYZER CELLS (nRBCS) %	NIL	%	< 10 %
ΜΠΟΙ ΕΛΤΕΝ ΔΕΝ ΒΙ ΛΛΝ				

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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Page 1 of 6

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 18/Dec/2024 02:57PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM			
Test Name		Value	Unit	Biological Reference interval
<b>DIFFERENTIAL LE</b>	UCOCYTE COUNT (DLC)			
NEUTROPHILS		62	%	50 - 70
by FLOW CYTOMETRY LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	20	0/	20 45
	BY SF CUBE & MICROSCOPY	29	%	20 - 45
EOSINOPHILS		0 <sup>L</sup>	%	1 - 6
•	Y BY SF CUBE & MICROSCOPY	0	0/	2 10
MONOCYTES by FLOW CYTOMETRY	' BY SF CUBE & MICROSCOPY	9	%	3 - 12
BASOPHILS		0	%	0 - 1
-	BY SF CUBE & MICROSCOPY			
	CYTES (WBC) COUNT		,	0000 7500
ABSOLUTE NEUTRO	JPHIL COUN I ' BY SF CUBE & MICROSCOPY	8699 <sup>H</sup>	/cmm	2000 - 7500
ABSOLUTE LYMPHO		4069	/cmm	800 - 4900
	BY SF CUBE & MICROSCOPY		,	40 440
ABSOLUTE EOSINO	PHIL COUN I ' BY SF CUBE & MICROSCOPY	0 <sup>L</sup>	/cmm	40 - 440
ABSOLUTE MONOC	YTE COUNT	1263 <sup>H</sup>	/cmm	80 - 880
,	Y BY SF CUBE & MICROSCOPY	0	1	0 110
ABSOLUTE BASOPH by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND O	THER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT	(PLT) OCUSING, ELECTRICAL IMPEDENCE	341000	/cmm	150000 - 450000
PLATELETCRIT (PC		0.28	%	0.10 - 0.36
by HYDRO DYNAMIC F MEAN PLATELET V	OCUSING, ELECTRICAL IMPEDENCE	8	fL	6.50 - 12.0
	OCUSING, ELECTRICAL IMPEDENCE	0	IL	0.30 - 12.0
	CELL COUNT (P-LCC) ocusing, electrical impedence	45000	/cmm	30000 - 90000
	CELL RATIO (P-LCR)	13.2	%	11.0 - 45.0
	OCUSING, ELECTRICAL IMPEDENCE SUTION WIDTH (PDW)	15.6	%	15.0 - 17.0
	OCUSING, ELECTRICAL IMPEDENCE			

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	NTT	
Test Name	Value	Unit	Biological Reference interval



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REG. NO./LAB NO. REGISTRATION DA COLLECTION DATE	: 012412180044 ATE : 18/Dec/2024 02:30 PM E : 18/Dec/2024 02:46PM
REGISTRATION DA COLLECTION DATE	<b>XTE</b> : 18/Dec/2024 02:30 PM         ::       18/Dec/2024 02:46PM
COLLECTION DATE	E : 18/Dec/2024 02:46PM
<b>REPORTING DATE</b>	
	: 18/Dec/2024 03:01PM
BALA CANTT	
Value Unit	t Biological Reference interval
NOPATHOLOGY/SEROL	LOGY
EEN (TYPHOID ANTIGEN, Ig	gG AND IgM): SERUM
NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	
	NOPATHOLOGY/SEROI EN (TYPHOID ANTIGEN, I NEGATIVE (-ve)

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reaching the gut, the bacilli attach themselves to the epithelial cells of the intestinal villi and penetrate the lamina and submucosa. They are then phagocytosed there by polymorphs and mesenteric lymph nodes, where they multiply and, via the thoracic duct, enter the blood stream. A transient bacteremia follows, during which the bacilli are seeded in the liver, gall bladder, spleen, bone marrow, lymph nodes, and kidneys, where further multiplication takes place. Towards the end of the incubation period, there occurs a massive bacteremia from these sites, heralding the onset of the clinical symptoms.

The diagnosis of typhoid consists of isolation of the bacilli and the demonstration of antibodies. The isolation of the bacilli is very time consuming and antibody detection is not very specific. Other tests include the Widal reaction. The advantage of this test is that it takes only 10-20 minutes and requires only a small amount of stool/serum/plasma to perform. It is the easiest and most specific method for detecting S. typhi infection.

## **RELATIVE SENSTIVITY OF TYPHOID ANTIGEN DETECTION: 98.7% RELATIVE SPECIFICITY OF TYPHOID ANTIGEN DETECTION: 97.4%**

## DETECTABLE IgM RESPONSE:

ONSET OF FEVER	PERCENT POSITIVE
4 - 6 DAYS	43.5
6 - 9 DAYS	92.9
> 9 DAYS	99.5

1. This is a solid phase, immunochromatographic ELISA assay that detects specific IgM and IgG Antibodies against the OUTER MEMBRAN PROTEIN(OMP) of the Salmonella species. IgM antibodies appear in the serum 2-3 days post infection and are indicative of a recent infection while the IgG antibodies appear later and are useful for presumptive diagnosis of Enteric fever if the patient presents more than a week after onset of symptoms.

2. This is a useful screening assay for the early detection of Enteric fever and has a high sensitivity. However the test has moderate specificity and false positive results may be obtained in the following situations:

Antibodies against Salmonella may cross react with other antibodies.

Unrelated infections may lead to production of specific Salmonella antibodies if the patient has previously been exposed to





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	Dr. Vinay Chor	ora I Dr. Yugar	n Chopra

Salmonella infection (ANAMNESTIC RESPONSE).

NOTE:-Rapid blood culture performed during f<sup>t</sup> week of infection is highly recommended for confirmation of all IgM positive results. In case the patient has presented after the first week of infection, a thorough clinical correlation and confirmatory Widal test must be performed to establish the diagnosis.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	C	C-REACTIVE PR	OTEIN (CRP)	
C-REACTIVE PROT SERUM	EIN (CRP) QUANTITATIVE:	35.14 <sup>H</sup>	mg/L	0.0 - 6.0

2. CRP levels can increase dramatically (100-fold or more) after severe trauma, bacterial infection, inflammation, surgery, or neoplastic proliferation.

3. CRP levels (Quantitative) has been used to assess activity of inflammatory disease, to detect infections after surgery, to detect transplant

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc.,
5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

Oral contraceptives may increase CRP levels.

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





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