

# SmartLabTools™ Laboratory Report

Customize a Lab Report as backup to your Lab's Information System or for reporting patient results in Small or Startup Labs

*The PDF Laboratory Report Template was created based  
On request of a SmartLabTools user in Kenya*



**BLISS GVS HEALTHCARE LTD**  
(clinic)

Patient Name	MARY NYOBOKE MOMANYI		Time In	
Age	21		Scheme	
Gender	FEMALE			
Category	ADULT/FEMALE			
Doctor Name				
Request Date				
Result Date & Time	5/18/2018 20:28			

TEST NAME		FULL HEMOGRAM				
PARAMETER	RESULT	UNITS	NORMAL VALUE		COMMENTS	
			RANGE			
WBC	10	x10 <sup>9</sup> /L	3.90	....	11.70	NORMAL
LYMPHOCYTES%	1	%	21.10	....	52.80	LOW
MID %	10	%	2.70	....	6.60	HIGH
GRANULOCYTES %	60	%	50.00	....	70.00	NORMAL
LYMPHOCYTES#	4	x10 <sup>9</sup> /L	1.30	....	3.60	HIGH
MID #	0.6	x10 <sup>9</sup> /L	0.20	....	0.50	HIGH
GRANULOCYTES #	6	x10 <sup>9</sup> /L	2.00	....	7.80	NORMAL
RBC	4	x10 <sup>12</sup> /L	3.85	....	5.16	NORMAL
HB	17	g/dL	12.00	....	15.00	HIGH
HCT/PCV	40	%	34.80	....	45.00	NORMAL
MCV	100	fL	78.50	....	96.40	HIGH
MCH	2	pg	12.00	....	15.00	LOW
MCHC	80	g/dL	31.80	....	35.90	HIGH
RDWCV	12	%	11.50	....	14.50	NORMAL
RDWSD	30	fL	39.00	....	46.00	LOW
PLATELETS	180	x10 <sup>3</sup> cells/L	172.00	....	440.00	NORMAL
MPV	7	fL	6.30	....	9.10	NORMAL
PDW	23	fL	10.00	....	14.00	HIGH

Film Remarks:	RBC	
	WBC	
	PLATELETES	
SIGNATURE		

Laboratory Report was developed in Excel, with Male/Female Normal Values being hard-coded. User selects 'Category' for Male or Female Normal's. This example served as the model for creation of **SLT (PDF) Template**, now used in multiple clinic labs in Kenya.

Excel Spreadsheet by:  
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Richard is a Laboratory Technologist, QA Specialist in Kenya, who's talents include developing useful Excel spreadsheets for Lab Applications.

# SLT (PDF) LABORATORY REPORT

## Template Set-up

- **User Definable**
  - Lab Address & Contact Information
  - Other Header info (Director, Licenses)
  - Client Information
  - Demographic Labels
  - Report & Section Headers
  - Test Names, Units
  - 4 Sets of Reference Limits
  - 2 Report Pages (23 tests/page)
  - Comments Section on Report Pages
  - Instructions on Page-3 of Template
- **SLT Defines on Purchase**
  - User Provided Laboratory Name
  - User Provided Logo

# SLT (PDF) LABORATORY REPORTS

## Easy to Use

- Quickly Enter Results via TAB Key
- Results Flagged if 'Low' or 'High'
- Comments below as needed
- Pages 1 & 2 for Patient Report
- Page 3 for Instructions
- Page 4 (setup for report page-1)
- Page 5 (setup for report page-2)
- Print Results for Attractive Report
- Save 'PDF' To Daily Reports Folder
- **'Reset' button** clears Demographics and Test Results on User Defined Template

# SLT Laboratory Report Example -1

( 5 pages )

Report Pages (2)

Set-up Pages (2)

Instructions (1)

Patient Name, ID#	JOSEPH GRAND	Lab Accession#	3010
Age	21	Date / Time In	5/18/18 18:15
Gender	M		
Doctor Name	A. PERES		
Req / Collection Date	5/9/18		
Category	REF RANGE A      ADULT MALE	Result Date/Time	05/18/2018    20:13:16



**\*\*\* HEMATOLOGY / COAGULATION \*\*\***

**Reset Data**

PARAMETER	RESULT	UNITS	REFERENCE RANGE	COMMENTS
WBC	5.3	x10 <sup>9</sup> /L	3.7 - 9.7	
RBC	4.87	x10 <sup>12</sup> /L	4.54 - 5.78	
HGB	11.1	g/dL	13.3 - 17.2	LOW
HCT/PCV	35.1	%	39 - 51	LOW
MCV	72.1	fL	81.2 - 94	LOW
MCH	22.7	pg	13.3 - 17.2	HIGH
MCHC	31.6	g/dL	32.5 - 36.7	LOW
RDW CV	16.4	%	11.5 - 14.5	HIGH
RDW SD	52.9	fL	39 - 46	HIGH
PLATELETS	272	x10 <sup>3</sup> cells/L	179 - 373	
MPV	8.3	fL	6.1 - 8.9	
PDW	10.5	fL	10 - 14	
LYMPHOCYTES %	38.2	%	14.1 - 45.8	
MID %	11.2	%	3.3 - 9.2	HIGH
GRANULOCYTES %	50.6	%	50 - 70	
LYMPHOCYTES #	2.0	x10 <sup>9</sup> /L	1.1 - 3.3	
MID #	0.6	x10 <sup>9</sup> /L	0.2 - 0.7	
GRANULOCYTES #	2.7	x10 <sup>9</sup> /L	2 - 7.8	
			-	
ESR (SED-RATE)	29	mm/hr	0 - 18	HIGH
PROTHROMBIN TIME	11.5	Seconds	10 - 12	
PT/INR	1.1	ratio	0.9 - 1.1	
APTT	24.5	Seconds	22 - 32	

**Film Remarks:**

RBC Morphology : Normocytic, hypochromic

WBC Comments : Normal in distribution

Platelets: Adequate

*Signature:*

Patient Name, ID#	JOSEPH GRAND	Lab Accession#	3010
Age	21	Date / Time In	5/18/18 18:15
Gender	M		
Doctor Name	A. PERES		
Req / Collection Date	5/9/18		
Category	REF RANGE A	ADULT MALE	Result Date/Time 05/18/2018 20:13:16

**\*\*\* CHEMISTRY \*\*\***

PARAMETER	RESULT	UNITS	REFERENCE RANGE	COMMENTS
GLUCOSE	114	mg/dL	65 - 99	HIGH
BUN	11	mg/dL	8 - 27	
CREATININE	1.0	mg/dL	0.55 - 1.3	
SODIUM	133	mmol/L	136 - 148	LOW
POTASSIUM	4.1	mmol/L	3.7 - 5.3	
CHLORIDE	96	mmol/L	98 - 107	LOW
CO2	24	mmol/L	21 - 32	
			-	
** SEROLOGY **			-	
HCG, URINE PREG.		Qualitative	0 - 0	
STREPT SCREEN	NEG	Qualitative	0 - 0	
MONO SCREEN		Qualitative	0 - 0	
			-	
			-	
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Comments: THIS IS A SIMULATED PATIENT AND REFERENCE LIMITS

Signature:

## **INSTRUCTIONS:**

- 1. This document has a total of 5 pages.**
- 2. Page-1 is user definable lab report ... Use Page-4 to define Test Name & Reference Ranges**
- 3. Page-2 is user definable lab report ... Use Page-5 to define Test Name & Reference Ranges**
- 4. Page-1 User to define Report Header Titles, and Field Descriptions.**
- 5. Page-2 User defined Report Header & Titles from Page-1 update automatically.**
- 6. User can define up to 4 reference range categories for each assay. Use the drop-down box to select category for Male, Female, or other defined.**
- 7. Unused Headings can be cleared (blanked out) by user.**
- 8. Units must be defined by user on Page-1 and Page-2.**
- 9. Low or High Flagging occurs when results exceed the upper or lower defined limits.**
- 10. For Qualitative Serology Tests where no flagging is warranted, define the reference range as 0 - 0 .**
- 11. [RESET DATA] Clears the Patient and Specimen information as well as test results and comments.**
- 12. Print only the relevant pages.**
- 13. Optionally use 'Save as' to save your completed report to a designated report folder.**
- 14. Refer to SmartLabTools.com FAQ's for instructions on removing the blue highlighting.**
- 15. To update the Logo, contact [dan@smartlabtools.com](mailto:dan@smartlabtools.com).**
- 16. Hint: Set up the analyte order same as the analyzer printout. Use the [tab] key when entering data.**
- 17. AVOID TRANSCRIPTION ERRORS...ALWAYS.. REVIEW DATA ENTERED!!**
- 18. Top of Page Header should contain Name & Address of Laboratory, Name of Lab Director, etc.**



**- TEST SET-UP PAGE -**

**User Is Responsible for establishing labs own reference ranges**

**\*\*\* HEMATOLOGY / COAGULATION \*\*\***

PARAMETER	ADULT MALE		ADULT FEMALE		DEFINE C		DEFINED	
	Ref A Low	Ref A Hi	Ref B Low	Ref B Hi	Ref C Low	Ref C Hi	Ref D Low	Ref D Hi
WBC	3.7	9.7	3.9	11.7				
RBC	4.54	5.78	3.85	5.16				
HGB	13.3	17.2	12.0	15.0				
HCT/PCV	39	51	35	45				
MCV	81.2	94.0	78.5	96.4				
MCH	13.3	17.2	12.0	100				
MCHC	32.5	36.7	31.8	35.9				
RDW CV	11.5	14.5	11.5	14.5				
RDW SD	39	46	39	46				
PLATELETS	179	373	172	440				
MPV	6.1	8.9	6.3	9.1				
PDW	10	14	10	14				
LYMPHOCYTES %	14.1	45.8	21.1	25				
MID %	3.3	9.2	2.7	5.0				
GRANULOCYTES %	50	70	50	71				
LYMPHOCYTES #	1.1	3.3	1.3	3.6				
MID #	0.2	0.7	0.2	0.5				
GRANULOCYTES #	2.0	7.8	2.0	7.8				
ESR (SED-RATE)	0	18	10	20				
PROTHROMBIN TIME	10	12	10	12				
PT/INR	0.9	1.1	0.9	1.2				
APTT	22	32	23	33				

**- TEST SET-UP PAGE -**  
**User Is Responsible for establishing labs own reference ranges**

**\*\*\* CHEMISTRY \*\*\***

PARAMETER	ADULT MALE		ADULT FEMALE		DEFINE C		DEFINED D	
	Ref A Low	Ref A Hi	Ref B Low	Ref B Hi	Ref C Low	Ref C Hi	Ref D Low	Ref D Hi
GLUCOSE	65	99	65	99				
BUN	8	27	8	27				
CREATININE	0.55	1.3	0.5	1.0				
SODIUM	136	148	134	144				
POTASSIUM	3.7	5.3	3.5	5.2				
CHLORIDE	98	107	99	106				
CO2	21	32	18	29				
<b>** SEROLOGY **</b>								
HCG, URINE PREG.	0	0	0	0				
STREPT SCREEN	0	0	0	0				
MONO SCREEN	0	0	0	0				

SLT Laboratory  
Report  
Example -2

( 2 Report pages )

Patient Name, ID#	MOUSE, MICKEY	Lab Accession#	1021
Age or D.O.B.	89	Date / Time In	05/21/2018 18:00
Gender	MALE		
Doctor Name	JEAN LACOMBE		
Req / Collection Date	05/21/18		
Category	REF RANGE B FEMALE / ADULT	Result Date/Time	05/21/2018 19:51:42



\*\*\* HEMATOLOGY / URINALYSIS \*\*\*

[Reset Data](#)

PARAMETER	RESULT	UNITS	REFERENCE RANGE	COMMENTS
WBC	10.2	x10 <sup>9</sup> /L	3.5 - 10	HIGH
LYM%	23.5	%	15 - 50	
MID%	7.5	%	2 - 15	
GRAN%	69	%	35 - 80	
RBC	5.15	x10 <sup>12</sup> /L	3.5 - 5.5	
HCT	42.9	%	35 - 55	
HGB	14.1	g/dL	11.5 - 16.5	
MCV	83.3	fL	75 - 100	
MCH	27.3	pg	25 - 35	
MCHC	32.8	g/dL	31 - 38	
RDW%	10.8	%	11 - 16	LOW
PLATELETS	115	x10 <sup>3</sup> /L	100 - 400	
*** URINALYSIS ***				
LEUKOCYTES	3+ 500	Leu/uL	0 - 0	
NITRATE	Pos		0 - 0	
UROBILINOGEN	3+ 140	umol/L	0 - 0	
PROTEIN	3+ 3.0	g/L	0 - 0	
pH	8.5		5 - 7.5	HIGH
BLOOD	3+ 200	Ery/uL	0 - 0	
SPECIFIC GRAVITY	1.032		1.003 - 1.030	HIGH
KETONES	2+ 4.0	mmol/L	0 - 0	
BILIRUBIN	Neg	umol/L	0 - 0	
GLUCOSE	3+ 60	mmol/L	0 - 0	

Comments: RESULTS AND REFERENCE RANGES FOR // EXAMPLE ONLY\\

Signature:

Patient Name, ID#	MOUSE, MICKEY	Lab Accession#	1021
Age or D.O.B.	89	Date / Time In	05/21/2018 18:00
Gender	MALE		
Doctor Name	JEAN LACOMBE		
Req / Collection Date	05/21/18		
Category	REF RANGE B FEMALE / ADULT	Result Date/Time	05/21/2018 19:51:42

\*\*\* CHEMISTRY - CMP - PICCOLO \*\*\*

PARAMETER	RESULT	UNITS	REFERENCE RANGE	COMMENTS
SODIUM	127	mmol/L	128 - 145	LOW
POTASSIUM	4.3	mmol/L	3.6 - 5.1	
TOTAL CO2	29	mmol/L	18 - 33	
CHLORIDE	97	mmol/L	98 - 108	LOW
GLUCOSE	468	mg/dL	73 - 118	HIGH
CALCIUM	9.2	mg/dL	8 - 10.3	
BUN	17	mg/dL	22 - 22	LOW
CREATININE	1.0	mg/dL	0.6 - 1.2	
ALKALINE PHOS.	150	U/L	42 - 141	HIGH
ALT	12	U/L	10 - 47	
AST	20	U/L	11 - 38	
T. BILIRUBIN	0.5	mg/dL	0.2 - 1.6	
ALBUMIN	3.3	gm/dL	3.3 - 5.5	
T. PROTEIN	6.8	gm/dL	6.4 - 8.1	
Urine HCG (pregnancy)		qualitative	0 - 0	
Fecal Occult Blood		qualitative	0 - 0	
Strept A Screen	Neg	qualitative	0 - 0	
Mono Screen	Neg	qualitative	0 - 0	
H. Pylori		qualitative	0 - 0	
Flu		qualitative	0 - 0	
Comments: THIS REPORT IS INTENDED AS AN EXAMPLE ONLY..				
Signature:				

Thank you for Checking Out the  
SLT Laboratory Report

**Comments Welcome!**

[dan@smartlabtools.com](mailto:dan@smartlabtools.com)