SIEMENS Healthineers	INSTALLAT	ΠΟΝ RATING / COMPLETION	N. F.O.D.M.
	INSTALLA	TION RATING / COMPLETION	N FORM
ACCOUNT DETAILS Account Name			
Address	Doctors Laboratory		
City	14-Q2, Nethaji By-Pass Road		
State	Dharmapuri		
Dr In-Charge at site	Tamilnadu		ZIP Code 63670
Dr In-Charge Contact No	Dr. K. balan , Ph.D.,/ Dr. Gandhi 9787103287	, Ph.D.,	
Email ID	doctorslaboratorys@gmail.com		
FIELD PERSONNEL DETAILS	Tester sidder ator ys@gmail.com	Accessoration to produce and the second seco	
RSM	Sinu Joseph		
Primary CSE	Pradeep Leveal	AM - Scientific Support	Karthik Lakshmanan
Secondary CSE	Deepak	Primary AM - CRM Secondary AM - CRM	Sanjay A
INSTALLATION DATE AND T		Gecondary AM - CRIM	Sathish Shankar
FSE Start Date & Time	31.01.2022 11:00	Value of the second	
FSE End Date & Time	01.02.2022 15:00	FAS Start Date & Time	07.02.2022 11:00
FSE Total Site Visits		FAS End Date & Time PFAS Total Site Visits	09.02.2022 19:00
FSE Total Site Hrs	14	FAS Total Site Hrs	3
INSTRUMENT DETAILS		The Fold Site File	24
Instrument Category	CHEMISTRY	Instrument Model	
Serial No	908020039	Installation Notification No	AUTOPAK 300
LIS Vendor	NOT APPLICABLE	Water Source	728106286417 IN-HOUSE
FSE INSTALL RATINGS - ELI	ECTRICAL & MECHANICAL INSTALLA	ATION	IIIA-LIOUSE
	AUTOR	PAK 300	
Delivery Quality	Site Preparation	Hardware Quality	S/W Quality Adjustments
	5 5	5	5 5
EM No of Visit Days	2	FSE Travel Hrs	•
FAS INSTALL RATINGS - ME	THOD INSTALLATION & TRAINING	Francis de Language de la companya d	2
l In	stall Ratings: 5 = Outstanding: 4 = 0	Good; 3 = Acceptable; 2 = Fair; 1=Po	The second secon
Wiethor Campiation	Consumables Delivery	Training	No of Methods Installed
	5 5	5	5
Appn & Trng visit days			J
PART REPLACEMENT, IF AN	3	FAS Travel Hrs	1
Part Replaced	A ACTION OF THE PROPERTY OF TH		
Part Replaced		Part Number	
		Part Number	
roc and FAS Comments	: For any rating 4 or less, please	provide details ; Any other comme	nts
			The state of the s
Installation Completion [Date and Time 09.02.2022 1	19:00	
CUSTOMER REMARKS ON C	OVERALL INSTALLATION	A TO PARK TO THE PARK TO LET US TO SELECT THE THE PARK TO SELECT THE P	
	And the state of t		
I hereby agree that above	Statements are correct and the		
O STATE OF THE STA	State of the content and instrume	ent has been installed to our satisfact	ion.
		1, 1,-	
Customara		Karthi	
Customer Signatu	re and Date	Signature of Siemens Service Rep	resentative
			The state of the s



AUTOPAK 300 IQ, OQ, PQ Guideline and Documentation

Name/Address of Lab: Doctors Laboratory				
Phone: 9787103287	Contact Person: Dr. K. Balan, Ph.D.,/ Dr. Gandhi, Ph.D.,			
FAX: NA	Contact Email: doctorslaboratorys@gmail.com			
Instrument Model: AUTOPAK 300	Instrument Serial #: 908020039			
Installation Date: 09.02.2022	Software Revision #: NA			
Install FSE / FAS Name: Mr. Pradeep Leveal Mr. Karthik Lakshmanan	Signature .			
<u></u>	DOCTORS LABORATORY			

Instrument Installation Qualification:

☑ The pressure is above 600 hP.

☐ The room temperature is lower than 27°C.

14-Q2, Nethaji By-pass Rose Dharmapuri-636 701.

The Installation Qualification (IQ) procedure verifies that the equipment and its sub-systems have been installed in accordance with the specifications. These requirements must all be satisfied before the IQ can be completed and the qualification process is allowed to progress to the Operational Qualification (OQ) procedure.

NSTALLATION QUALIFICATION CHECKLIST:
hipping Boxes Received
☑ No external damage.
<u>Documentation</u>
☑ Matched Serial # Packing List.
☑ Matched Serial # Final Check Report.
☑ Operator's Manual.
<u>Accessories</u>
☐ As per attached list.
nstrument Location
☐ The analyzer is a heavy instrument (more than 95 Kg). At least two persons are needed to move it. The lifting arms mus
be used.
☐ The instrument is installed on a solid horizontal table that can support the weight of the instrument. ☐ The location is well-ventilated and dust free.
☐ The instrument is properly levelled.
☐ The instrument is not expose to direct sunlight.
☐ The instrument is not placed near or in front of heat sources

☐ Main electric is close to the instrument (less than two meters) and must fulfill local regulations.



 ☑ There is a free access to main switch and main cable's plug. A distance of 50 cm from the left side of instrument to nearest table or wall is advisable. The right side must have at least 30 cm of free space for ventilation purposes. ☑ The instrument must have 2.10 m of free space above it. Avoid using shelves, walls or screens above the instrument. ☑ Reagent storage under the instrument is easily accessible. ☑ Space for computer, printer and UPS to be hooked.
Power Requirements
☐ 100/240 Vac, 50/60 Hz, 600VA maximum.
Female receptacle outlet with single-phase input power and ground.
Building outlet properly grounded and electrical panel protected against power fluctuations.
Confirmed third-wire earth ground capable of carrying full current of circuit.
UPS system hooked up to properly rated and grounded outlet, battery is connected and powered on.
Connections and Setup
PC setup and connections
Peripherals (mouse, keyboard) connected to the computer.
☑ Computer power cord connected.
Power cord connected to UPS.
☑ USB/serial port adapter connected to computer and serial cable connected to instrument.
Instrument setup and connections
Biohazard waste container tubing properly connected to container and to instrument.
Biohazard waste container located on floor or shelf lower than instrument.
Reagent tubing properly connected to all reagent containers and to instrument.
Tubes cut to length in order to prevent a U shape below bottle level.
Peristaltic pumps tubing connected.
The plastic protection tube from the vertical shaft of the probe arm and tip protector removed.DI water and cleaner bottles filled.
☐ Di water and cleaner bottles filled. ☐ Instrument and scale connected to the computer.
☐ Instrument's power cord connected to instrument and plugged into electrical outlet.
Installation Qualification is now complete. You may begin the Operation Qualification Procedure.
instantation Qualification is now complete. You may begin the operation Qualification Procedure.
OPERATION QUALIFICATION CHECKLIST:
The definition of operational qualification is: Establishing confidence that the equipment and sub-systems are capable of operating within the stated limits and tolerances. In practice, the operational qualification is the executed test protocol documenting that a system meets the defined requirements or that the system does what it's supposed to do.
Instrument and PC Startup:
Computer powered on and USB/serial port adapter driver installed.
 Computer settings configured for proper date/time, display, hibernation and hard drive per installation guide. Windows activation performed when prompted.
✓ Windows activation performed when prompted.✓ Windows updated prior to software installation.
Software installed.
☑ Instrument turned on.
☑ Software started and reconnected (Do not initialize)
Filter wheel calibrated (remember to remove cuvettes if any inserted).
M Ponetion equation is sent d

Full mechanical calibration performed.



V	System flush performed.
abla	Washer volume calibration performed.
	Photometer calibration performed.
\mathbf{V}	Scale calibrated.
\mathbf{r}	Initialization performed.

System tests:

In order to check whether the instrument works within given specification the instrument is equipped in a batch of tests to check analyzers performance. To ensure that the instrument meets all measuring requirements all the tests should pass.

All the System Tests protocols are included in the Operator's Manual (Chapter 9). Follow the instruction given in the OM as well as on the screen during performing the tests.

Reagent used for system tests:

- 1. Calibration set VA0003SL:
 - 5 g/l Potassium chromate
 - Sodium nitrate
 - 0,1 g/l Potassium chromate
 - 2 g/l Potassium chromate
- 2. Additive for Wash Solution VA0002SL
- 3. Cleaning Solution VA0000SL

Additional reagents:

1. Distilled water

System Tests results:

		Passed	Failed	Comments
•	Temperature			
•	Stray light	\mathbf{r}		
•	Noise	\square		
•	Stability	P		
•	Tip pump	\Box		
•	Level detection	☑		
•	Washer hydraulics			
•	Washer	V		
•	Dilution	\square	П	
•	Photometer linearity		П	
•	Diluter linearity	\square	П	
•	Clot detector	\square		

Refer to the *Operator's Manual*, for detailed information regarding the reagents composition, storage requirements, usage, etc.



INSTRUMENT PERFORMANCE QUALIFICATION:

The definition of performance qualification is: Establishing confidence through appropriate testing that the installed product meets all performance requirements for functionality and safety and that results are effective and reproducible. In practice, the performance qualification is the executed test protocol documenting that a system meets the defined requirements to function in the clinical laboratory environment.

NEW INSTRUMENT VALIDATION:

All new instruments, upon installation, must be tested to validate the manufacturer's claims for accuracy and precision.

New operators will be instructed and assisted by the individual(s) who install and train the operator(s) in the routine use of the new analyzer. Instructions and guidance in the validation of accuracy and precision will as per the laboratory Protocols. These validations must be reviewed and approved by the Lab Director before the instrument can be used to test and report patient samples.



INSTRUMENT VALIDATION EVALUATION

Laboratory Name: Doctors Laboratory

Address:	14-Q2, Nethaji By-Pass Road, Opp to Govt Hospital	
Addiess	Dharmapuri-636701	
- Phone:	9787103287	
Contact person:	Dr. K.Balan Ph.D.,	
Contact email: _	doctorslaboratorys@gmail.com	
Instrument Serial No.: _	908020039 Date installed	01.02.2022
	09.02.2022	
Date(s) validated: _	03.02.2022	
Date(s) validated: _	03.02.2022	
I have evaluated the validation do		
I have evaluated the validation do	ata for this analyzer.	
I have evaluated the validation de	ata for this analyzer.	
I have evaluated the validation de 	ata for this analyzer.	

PRECISION STUDY Analyzer AUTOPAK 300 S.No 908020039 Evaluation Date 09.02.2022 Material BIORAD-ASSAYED CHEMISTRY Lot No: 26470

S.No	Glucose(mg/dl)	Creatinine(mg/ dL)	SGOT(U/L)	SGPT(U/L)	ALB(g/dL)
1	77.7	2.47	44.8	28.2	4.41
2	78.6	2.44	44.6	31.3	4.44
3	78.6	2.47	45.2	30.3	4,43
4	78.2	2.49	49.8	31.6	4.41
5	77.8	2.46	46.7	30.3	4.46
Mean	78.18	2.466	46.22	30.34	4.43
SD	0.43	0.02	2.16	1.33	0.02
CV%	0.55%	0.74%	4.68%	4.39%	0.48%
ACCEPTABLE CV	4.5	6	12.3	19.4	3.2
S.No	TP(g/dL)	ALP(U/L)	Tbil(mg/dL)	Chol(mg/dL)	Trig(mg/dL)
. 1	6.79	112.2	1.1	261	190.4
2	6.8	109.7	1.13	259	188.4
3	6.8	110	1.12	259	190
4	6.74	111.2	1.09	258	188.4
5	6.75	112.7	1.1	258	188.5
Mean	6.8	111.2	1.1	259.0	189.1
SD	0.03	1.32	0.02	1.22	0.98
CV%	0.43%	1.18%	1.48%	0.47%	0.52%
ACCEPTABLE C	2.75	6,45	21.8	5.95	1,000,000,000,000
S.No	UA(mg/dL)	and the state of t	To the second se	3 ,55	19.9
1	5.09				
2	5.07				
3	5.12				
4	4.76				
5	5.01				
Mean	5.01	4			
SD	0.15	<u>V</u> .		 	
CV%	2.90%	Š.			
ACCEPTABLE C	V 8.6				

Note: Please refer Westgard Biological Variation Values for Acceptable CV

EPARED BY

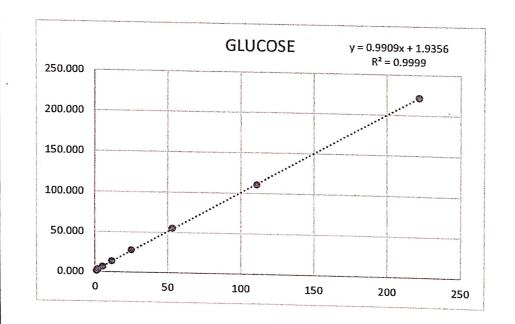
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REVIEWED AND ACCEPTED BY

DOCTORS LABORATORY 14-Q2, Nethaji By-pass Road Dharmapuri-636 701.

DEPARTM	ENT OF CLINICAL BIOCHEMISTRY
	LINEARITY STUDY
Analyzer	AUTOPAK300
S.No	908020039
Assay	GLUCOSE
Evaluation Date	09.02.2022
Material	Serum

S.No	SNO	OBTAINED	EXPECTED
1	NEAT	221.8	221.800
2	1:02	110.9	110.900
3	1:04	53	55.450
4	1:08	24.9	27.725
5	1:16	11.5	13.863
6	1:32	5.1	6.931
7	1:64	2.1	3.466
8	1:128	1	1.733



SLOPE	0.9909
Coefficient Determination (R²)	0.9999
Linearity Range	1-400 mg/dL

Sample Id KARTHICK

Date

09-02-2022 16:42:48

Ref. class ADULT

Patient Id First name

Last name Birth date 30-12-1899 MD.

Section

Bed

Method Id	Result Units	Reference	Flags	Measurement Time
ALB APK	4.74a/dL	3.50 - 5.20		09-02-2022 17:16:59
ALPA APK	67.8U/L	-		09-02-2022 17:23:14
CHOL APK	169ma/dL	20 - 200		09-02-2022 17:19:48
CREA APK	0.76mg/dL	0.60 - 1.30		09-02-2022 17:16:59
GLU APK	118.3mg/dL	70.0 - 100.0	Н	09-02-2022 17:25:10
GOT APK	20.1U/L	5.0 - 37.0		09-02-2022 17:20:21
GPT APK	25.9U/L	5.0 - 41.0		09-02-2022 17:20:34
TBIL APK	1.16mg/dL	0.30 - 1.20		09-02-2022 17:22:27
TPr APK	6.97a/dL	6.60 - 8.70		09-02-2022 17:20:29
TRIG APK	193.3mg/dL	20.0 - 150.0	Н	09-02-2022 17:25:40
UrA APK	5.55mg/dL	2,60 - 7,20		09-02-2022 17:20:49

Sample Id KARTHIK

Birth date 30-12-1899

Date

09-02-2022 12:37:40

Ref. class ADULT

Patient Id

First name Last name

MD.

Section

Bed

Method Id	Result Units	Reference	Flags	Measurement Time
ALB APK	4.59g/dL	3.50 - 5.20		09-02-2022 12:44:01
ALPA APK	68.5U/L	-		09-02-2022 12:50:16
CHOL APK	171mg/dL	20 - 200		09-02-2022 12:46:49
CREA APK	0.83mg/dL	0.60 - 1.30		09-02-2022 12:44:01
GLU APK	114.8mg/dL	70.0 - 100.0	Н	09-02-2022 12:52:11
GOT APK	17.4U/L	5.0 - 37.0		09-02-2022 12:47:23
GPT APK	24.5U/L	5.0 - 41.0		09-02-2022 12:47:36
TBIL APK	1.22mg/dL	0.30 - 1.20	Н	09-02-2022 12:49:28
TPr APK	6.91g/dL	6.60 - 8.70		09-02-2022 12:47:31
TRIG APK	187.1mg/dL	20.0 - 150.0	Н	09-02-2022 12:52:42
UrA APK	5.55mg/dL	2.60 - 7.20		09-02-2022 12:47:51

Sample Id	G 1:128	Date 09-0	2-2022 18:21:50	Ref. class ADULT
Patient Id First name		MD.		
Last name		Section		
Birth date	30-12-1899	Bed		
Method Id	Result Units	Reference	Flags	Measurement Time
GLU APK	< 1.0mg/dL	70.0 - 100.0	LL,L,RL	09-02-2022 18:46:11
Sample Id	G 1: 1 8	Date 09-0	2-2022 18:20:50	Ref. class ADULT
Patient Id				
First name		MD.		
Last name		Section		
Birth date	30-12-1899	Bed		
Method Id	Result Units	Reference	Flags	Measurement Time
GLU APK	24,9mg/dL	70.0 - 100.0	L	09-02-2022 18:35:21
Sample Id	G 1:2	Date 09-0	2-2022 18:19:37	Ref. class ADULT
Patient Id				
First name		MD.		
Last name		Section		
Birth date	30-12-1899	Bed		
Method Id	Result Units	Reference	Flags	Measurement Time
GLU APK	110.9mg/dL	70.0 - 100.0	Н	09-02-2022 18:34:50
0	0.4.00			
Sample Id	G 1:32	Date 09-0	2-2022 18:21:09	Ref. class ADULT
Patient Id				
First name Last name		MD.		
Birth date	30-12-1899	Section Bed		
Method Id	Result Units	Reference	Flags	
GLU APK	5.1 mg/dL	70.0 - 100.0	L	Measurement Time
		70.0 - 100.0	L	09-02-2022 18:35:31
Sample Id	G 1:4	Date 09-0	02-2022 18:20:06	Ref. class ADULT
Patient Id				
First name		MD.		
Last name		Section		
Birth date Method Id	30-12-1899	Bed		
GLU APK	Result Units	Reference	Flags	Measurement Time
GLU AFK	53.0mg/dL	70.0 - 100.0	L	09-02-2022 18:35:00
Sample Id	G 1:64	Date 09-0	02-2022 18:21:30	Pot alara ADIU T
Patient Id				Ref. class ADULT
First name		MD.		
Last name		Section		
Birth date	30-12-1899	Bed		
Method Id	Result Units	Reference	Flags	Measurement Time
GLU APK				

Sample Id G 1:816

Date 09-02-2022 18:20:29 Ref. class ADULT

Patient Id

First name

MD.

Last name

Section

Birth date 30-12-1899

Bed

Method Id

Result Units

Reference

Flags

Measurement Time

GLU APK

11.5mg/dL 70.0 - 100.0

L

09-02-2022 18:35:11

Sample Id PRECISION

Date

08-02-2022 15:22:13

Ref. class ADULT

Patient Id PRECISION

First name Last name

MD. Section Bed

Last Haine		Section		
Birth date	08-02-2022	Bed		
Method Id	Result Units	Reference	Flags	Measurement Time
ALB APK	4.41g/dL	3.50 - 5.20		08-02-2022 15:34:45
ALB APK	4.44g/dL	3.50 - 5.20		08-02-2022 15:34:55
ALB APK	4.43g/dL	3.50 - 5.20		08-02-2022 15:35:05
ALB APK	4.41 g/dL	3.50 - 5.20		08-02-2022 15:35:15
ALB APK	4.46g/dL	3.50 - 5.20		08-02-2022 15:35:26
ALPA APK	112.2U/L	-		08-02-2022 15:41:45
ALPA APK	109.7U/L	_		08-02-2022 15:41:53
ALPA APK	110.0U/L	-		08-02-2022 15:42:04
ALPA APK	111.2U/L	-		08-02-2022 15:42:12
ALPA APK	112.7U/L	-		08-02-2022 15:42:22
CHOL APK	261mg/dL	20 - 200	Н	08-02-2022 15:32:07
CHOL APK	259mg/dL	20 - 200/	Н	08-02-2022 15:32:42
CHOL APK	259mg/dL	20 - 200	Н	08-02-2022 15:32:49
CHOL APK	258mg/dL	20 - 200	Н	08-02-2022 15:32:59
CHOL APK	258mg/dL	20 - 200	Н	08-02-2022 15:33:09
CREA APK	2.47mg/dL	0.60 - 1.30	н	08-02-2022 15:29:20
CREA APK	2.44mg/dL	0.60 - 1.30	Н	
CREA APK	2.47mg/dL	0.60 - 1.30	Н	08-02-2022 15:30:21
CREA APK	2.49mg/dL	0.60 - 1.30	Н	08-02-2022 15:30:33
CREA APK	2.46mg/dL	0.60 - 1.30	Н	08-02-2022 15:30:46
GLU APK	77.7mg/dL	70.0 - 100.0		08-02-2022 15:31:01
3LU APK	78.6mg/dL	70.0 - 100.0		08-02-2022 15:37:29
GLU APK	78.6mg/dL	70.0 - 100.0		08-02-2022 15:39:09
BLU APK	78.2mg/dL	70.0 - 100.0		08-02-2022 15:39:19
SLU APK	77.8mg/dL	70.0 - 100.0		08-02-2022 15:39:29
OT APK	44.8U/L	5.0 - 37.0	Н	08-02-2022 15:39:39
SOT APK	44.6U/L	5.0 - 37.0	Н	08-02-2022 15:39:26
SOT APK	45.2U/L	5.0 - 37.0	Н	08-02-2022 15:39:40
GOT APK	49.8U/L	5.0 - 37.0	Н	08-02-2022 15:39:51
GOT APK	46.7U/L	5.0 - 37.0	Н	08-02-2022 15:40:05
GPT APK	28.2U/L	5.0 - 41.0		08-02-2022 15:40:17
SPT APK	31.3U/L	5.0 - 41.0		08-02-2022 15:40:30
SPT APK	30.3U/L	5.0 - 41.0		08-02-2022 15:40:44
SPT APK	31.6U/L	5.0 - 41.0		08-02-2022 15:40:55 08-02-2022 15:41:08
SPT APK	30.3U/L	5.0 - 41.0		00-02-2022 15:41:08
BIL APK	1.10mg/dL	0.30 - 1.20		08-02-2022 15:41:24
BIL APK	1.13mg/dL	0.30 - 1.20		08-02-2022 15:37:18 08-02-2022 15:37:25
BIL APK	1.12mg/dL	0.30 - 1.20		08-02-2022 15:37:25
BIL APK	1.09mg/dL	0.30 - 1.20		08-02-2022 15:37:32 08-02-2022 15:37:52
BIL APK Pr APK	1.10mg/dL	0.30 - 1.20		08-02-2022 15:37:55 08-02-2022 15:37:56
Pr APK	6.79g/dL	6.60 - 8.70		08-02-2022 15:34:48
Pr APK	6.80g/dL	6.60 - 8,70		08-02-2022 15:35:52
Pr APK	6.80g/dL	6.60 - 8.70		
Pr APK	6.74g/dL	6.60 - 8.70		08-02-2022 15:36:00 08-02-2022 15:36:11
RIG APK	6.75g/dL	6.60 - 8.70		08-02-2022 15:36:21
RIG APK	190.4mg/dL 188.4mg/dL	20.0 - 150.0	Н	08-02-2022 15:41:34
RIG APK	190.0mg/dL	20.0 - 150.0	Н	08-02-2022 15:41:34
RIG APK	188.4mg/dL	20.0 - 150.0	H	08-02-2022 15:41:44
RIG APK	185.5mg/dL	20.0 - 150.0	H	08-02-2022 15:41:54
IrA APK	5.09mg/dL	20.0 - 150.0	Н	08-02-2022 15:42:03 08-02-2022 15:42:13
IrA APK	5.07mg/dL	2.60 - 7.20		08-02-2022 15:42:13 08-02-2022 15:37:43
IrA APK	5.12mg/dL	2.60 - 7.20		08-02-2022 15:37:43 08-02-2022 15:38:05
JrA APK	3.12mg/dL 4.76mg/dL	2.60 - 7.20		08-02-2022 15:38:05 08-02-2022 15:38:16
JrA APK	5.01mg/dL	2.60 - 7.20		08-02-2022 15:38:16 08-02-2022 15:38:25
	O.O TING/UL	2.60 - 7.20		