



CALIBRATION CERTIFICATE

DIAGNOSTICNAME	COSMOSDIAGNOSTIC
ASSRESS	#503, SMV ARCADE ANDRAHALLI MAIN ROAD BANGALOREKARNATAKA
ANALYSER	ICUBIO (iMagic - M7)
DEPARTMENT	BIOCHEMISTRY DEPT.
DATE	APRIL18,2021

This is to certify that the above mentioned analyzer was calibrated by the following procedure as per manufacturer *s recommendations.

1. Analyser Rotor Init position check
2. Check Abs sensitivity100%
3. Check Init Position Accuracy
4. Check Pump Motor condition
5. Air/watercalibration

All the checks and calibration were done and system is being used under recommended conditions
Next calibration is due on April18, 2022

Euro Diagnostic Systems Pvt. Ltd.

Gopi SL
Technical Specialist
Bangalore



Euro Diagnostic Systems Pvt. Ltd.

36/37, 'Millenium House', M.K. Srinivasan Nagar Main Road, Rajiv Gandhi Salai, Perungudi, Chennai-600 096. Tamil nadu, INDIA
Phone: 044-2496 0541, Fax: 044-2496 2825, email: eurods@vsnl.net, WWW.eurodiagnostics.in

Date: 10/07/2021

Place: Bangalore

Certificate of Training

This is to certify that

➤ **Mr./Ms./Mrs.Praveen kumar**

Of **Cosmos clinics and diagnostic, located at #503, SMV Arcade, Andrahalli main raod, Syndicate bank layout, Bengaluru, Karnataka 560091** has undergone training on the operation and user maintenance of the **Fully Automated Chemistry Analyzer iCubio iMagic- M7.**

For Euro Diagnostic Systems Pvt Ltd

Authorized Signatory



Euro Diagnostic Systems Pvt. Ltd.

36/37, Millenium House, M.K. Srinivasan Nagar Main Road, Rajiv Gandhi Salai, Perungudi, Chennai-600 096. Tamil nadu, INDIA
Phone: 044-2496 0541, Fax: 044-2496 2825, email: eurods@vsnl.net, WWW.eurodiagnostics.in

Date: 10/07/2021

Place: Bangalore

Certificate of Training

This is to certify that

➤ **Mr./Ms./Mrs. Mamatha**

Of **Cosmos clinics and diagnostic, located at #503, SMV Arcade, Andrahalli main road, Syndicate bank layout, Bengaluru, Karnataka 560091** has undergone training on the operation and user maintenance of the **Fully Automated Chemistry Analyzer iCubio iMagic- M7.**

For Euro Diagnostic Systems Pvt Ltd

Authorized Signatory

Hospital/Lab Name: PHOENIX DIAGNOSTICS

Address: BABAVESHWARANAGAR

Ph. No.: 08043757868 Email ID:

Model: MAGIC 107 Instrument: FULLY AUTO ANALYSER

Serial No.: 31187417 Challan No.:

Instrument Delivery date: 29/10/2018

Instrument Installation Date: 29/11/2018.

WARRANTY: TWO YEAR

(Warranty starts either from the date of delivery or installation of Instrument whichever is earlier).

Contact Person:

SINO	NAME	DESIGNATION	PHONE/MOBILE NO.	EMAIL ID
1	Dr. Nigupama			

Site Output Voltage: 230V

(Kindly check the recommended power supply voltage or voltage mentioned backside of the Instrument)

Power Source: DIRECT / UPS / CVT

(UPS/CVT to be provided by customer. Voltage fluctuation should be constant and maximum 5VAC fluctuation is allowable)

Site Earthing Voltage: 1

(Earthing voltage should be 0VAC, otherwise suggest customer to maintain the same)

Line/Neutral: 230V Line/Earth: 0V Earth/Neutral: 1 (leakage voltage should be 0VAC)

Absorbance Test/ OD of Distilled Water in each Flow cell Mode: (Flow Cell should be filled with D/W) "Range of Abs in each filter"

Filter	340 nm	405 nm	450 nm	505 nm	546 nm	576 nm	630 nm	Remarks
AD Value	46512	46440	47512	47440	46716	46512	46716	46440
Off Set								

Tests Performed :

TEST	NAME	RESULT	REPEAT NO	REMARKS
1	GLU	105	10	} Good
2	CHOL	75	10	
3	UREA	44	10	
4	ALB	5	10	
5	TPR	6	10	
6	CREA	1	10	

Persons' Trained: UDAY

Customer Feedback:

Engineer's Remark: INSTRUMENT IS WORKING Good

Service Engineer
Abhinand.T

Seal & Signature
of the Customer

NOTE: Please fill the form in Capital Letters only.

IMP: Please note that in case of non-compliance of above points, report shall not be accepted at H.O

Technical Service Report

CUSTOMER NAME: <u>Cosmos</u>		DATE: <u>18</u> / <u>02</u> / <u>2021</u>																																
ADDRESS: <u>H 503 SUV Arcard, Anna Nagar, Chennai</u>		<input type="checkbox"/> India service n <input type="checkbox"/> AMC																																
TEL.NO: <u>Syndicate Bank layout Bcn-91</u>		<input type="checkbox"/> CHARGEABLE CALL <input checked="" type="checkbox"/> P.M.VISIT																																
VOLTAGE: Line/Neutral: <u>230V</u> , Line /Earth: <u>230V</u> , Earth/Neutral: <u>0V</u> (should not >005)		<input type="checkbox"/> COURTESY CALL <input type="checkbox"/> APPLICATION																																
POWER SOURCE: DIRECT / UPS / CVT		WORK CARRIED OUT AT <input checked="" type="checkbox"/> SITE <input type="checkbox"/> SERVICE CENTRE																																
INSTRUMENT: <u>Fully Automated Analyzer.</u>																																		
MODEL: <u>5 magic</u> SERIAL NO:																																		
PROBLEM REPORTED:																																		
PARAMETERS (Synergy Bio 1904C) T: <u>ok</u> A: <u>ok</u> Pump Speed : <u>ok</u> Pump: <u>ok</u> Front Board: <u>ok</u> Gain Cal: <u>ok</u> Pump Cal: <u>ok</u>		PARAMETERS (AutoLab Star Plus/ Versa) Pump Calibration: 500 ul (800-1200 ul)																																
FILTER STATUS: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Filters in nm</th> <th>340</th> <th>405</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Gain</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A/D Value (for Star Plus & Versa)</td> <td><u>48500</u></td> <td><u>46410</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Abs of D/Water</td> <td><u>0.00</u></td> <td><u>0.01</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Filters in nm	340	405						Gain								A/D Value (for Star Plus & Versa)	<u>48500</u>	<u>46410</u>						Abs of D/Water	<u>0.00</u>	<u>0.01</u>					
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Instrument Status: Outer Body: <u>ok</u> Display: <u>ok</u> Key Pad: <u>ok</u> Pump Motor: <u>ok</u> Printer: <u>ok</u> Aspiration Button: <u>ok</u> Tubing Set: <u>ok</u> Flow Cell: <u>ok</u> Internal Connectors: <u>ok</u> Software: <u>ok</u> Remarks on the defective part / parts if any:																																		
SERVICE DETAILS																																		
FOLLOWING PARTS HAVE BEEN REPLACED (if changed)																																		
PART NO.	DESCRIPTION	QTY	PRICE																															
<u>562128</u>	<u>Lamp has Replaced</u>	<u>1</u>	<u>—————</u>																															
USED FROM <input type="checkbox"/> COMPANY'S STOCK <input type="checkbox"/> CUSTOMER'S STOCK			TO BE FILLED IN BY CUSTOMER																															
SERVICE CHARGE / SPARE PARTS' CHARGE DETAILS:			<input type="checkbox"/> PREVENTIVE MAINTENANCE/ SERVICE WORK CARRIED OUT SATISFACTORILY																															
Received with thanks the sum of Rs. (Rupees.....) vide cash/Cheque No..... dated as the service charge/ spare parts' charge for servicing the above mentioned instrument.			<input type="checkbox"/> FAULT RECIFIED & INSTRUMENT IS WORKING SATISFACTORILY																															
NOTE: <ul style="list-style-type: none"> Parts replaced are chargeable once warranty Period is over. Consumables like Printer Head, Lamp, tubings, paper rolls, glass parts etc. are not covered by warranty and hence are chargeable. If the customer is not under AMC, customer needs to pay service charge to the engineer for any sort of service. 			DATE: CUSTOMER SIGNATURE WITH SEAL																															
ENGINEER'S REMARKS <u>Preventive maintenance done lamp has been changed & checked machine is working properly. Everything is ok.</u>			OFFICE USE RECEIVED ON: CHECKED BY:																															
ENGINEERS' SIGNATURE & NAME: <u>Shankar S. Subhachary</u>																																		



Technical Service Report

CUSTOMER NAME: <i>Cosmos Jaynalive</i>		DATE: <i>20 06 2021</i>																																
ADDRESS: <i>#503 SHU Arcade Andrahalli Main road, Syndicate Bank layout Ban. 91.</i>		<input type="checkbox"/> India service n <input type="checkbox"/> AMC <input type="checkbox"/> CHARGEABLE CALL <input checked="" type="checkbox"/> P.M.VISIT <input type="checkbox"/> COURTESY CALL <input type="checkbox"/> APPLICATION																																
VOLTAGE: Line/Neutral: <i>230..V</i> , Line /Earth: <i>230..V</i> , Earth/Neutral: <i>0....V(should not >005)</i> POWER SOURCE: DIRECT / UPS/ CVT		WORK CARRIED OUT AT <input checked="" type="checkbox"/> SITE <input type="checkbox"/> SERVICE CENTRE																																
INSTRUMENT: <i>fully automatic analyser.</i> MODEL: <i>Emagec.</i> SERIAL NO:		PROBLEM REPORTED: <i>Result Variato-(QC outlies)</i>																																
PARAMETERS (Synergy Bio 1904C) T: <i>ok</i> A: <i>ok</i> Pump Speed : <i>ok</i> Pump: <i>ok</i> Front Board: <i>ok</i> Gain Cal: <i>ok</i> Pump Cal: <i>ok</i>		PARAMETERS (AutoLab Star Plus/ Versa) Pump Calibration: 500 ul (800-1200 ul)																																
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Gain																																		
A/D Value (for Star Plus & Versa)	<i>48512</i>	<i>46420</i>																																
Abs of D/Water																																		
Instrument Status: Outer Body: <i>ok</i> Display: <i>ok</i> Key Pad: <i>ok</i> Pump Motor: <i>ok</i> Printer: <i>ok</i> Aspiration Button: <i>ok</i> Tubing Set: <i>chopped</i> Flow Cell: <i>ok</i> Internal Connectors: <i>ok</i> Software: <i>ok</i> Remarks on the defective part / parts if any: <i>Cuvette Holder/segment changed completely.</i>																																		
SERVICE DETAILS																																		
FOLLOWING PARTS HAVE BEEN REPLACED (if changed) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>PART NO.</th> <th>DESCRIPTION</th> <th>QTY</th> <th>PRICE</th> </tr> </thead> <tbody> <tr> <td><i>1.</i></td> <td><i>Cuvettes Holder.</i></td> <td><i>1</i></td> <td><i>-</i></td> </tr> </tbody> </table>		PART NO.	DESCRIPTION	QTY	PRICE	<i>1.</i>	<i>Cuvettes Holder.</i>	<i>1</i>	<i>-</i>	TO BE FILLED IN BY CUSTOMER <input checked="" type="checkbox"/> PREVENTIVE MAINTENANCE/ SERVICE WORK CARRIED OUT SATISFACTORILY <input type="checkbox"/> FAULT RECIFIED & INSTRUMENT IS WORKING SATISFACTORILY																								
PART NO.	DESCRIPTION	QTY	PRICE																															
<i>1.</i>	<i>Cuvettes Holder.</i>	<i>1</i>	<i>-</i>																															
USED FROM <input type="checkbox"/> COMPANY'S STOCK <input checked="" type="checkbox"/> CUSTOMER'S STOCK																																		
SERVICE CHARGE / SPARE PARTS' CHARGE DETAILS: Received with thanks the sum of Rs. (Rupees.....) vide cash/Cheque No..... dated as the service charge/ spare parts' charge for servicing the above mentioned instrument.																																		
NOTE: <ul style="list-style-type: none"> Parts replaced are chargeable once warranty Period is over. Consumables like Printer Head, Lamp, tubings, paper rolls, glass parts etc. are not covered by warranty and hence are chargeable. If the customer is not under AMC, customer needs to pay service charge to the engineer for any sort of service. 																																		
ENGINEER' REMARKS <i>Cuvette Rack/ Holder Replaced and working found ok.</i>		DATE: <i>20.06.2021</i> CUSTOMER SIGNATURE WITH SEAL <i>[Signature]</i>																																
ENGINEERS' SIGNATURE & NAME: <i>[Signature]</i>		OFFICE USE RECEIVED ON: CHECKED BY:																																

Euro Diagnostic Systems Pvt. Ltd.

'Millenium House', M.K. Srinivasan Nagar Main Road, Perungudi, Chennai-600 096, Tamil Nadu, INDIA

Ph : 044-2496 0541, Fax : 044-24962825, Email : eu rods@vsnl.net , Website : www.eu rods.in

Technical Service Report

CUSTOMER NAME: <u>Phoenix Diagnostics</u>		DATE: _____	20					
ADDRESS: _____		<input type="checkbox"/> India service n	<input type="checkbox"/> AMC					
TEL.NO: _____		<input type="checkbox"/> CHARGEABLE CALL	<input checked="" type="checkbox"/> P.M.VISIT					
VOLTAGE: Line/Neutral: <u>220</u> V, Line /Earth: <u>220</u> V, Earth/Neutral: V(should not >005)		<input type="checkbox"/> COURTESY CALL	<input type="checkbox"/> APPLICATION					
POWER SOURCE: DIRECT / UPS / <u>VEVT</u>		WORK CARRIED OUT AT						
INSTRUMENT: <u>i cubio fully auto chemistry analyzer</u>		<input checked="" type="checkbox"/> SITE	<input type="checkbox"/> SERVICE CENTRE					
MODEL: <u>magic m7</u> SERIAL NO: _____								
PROBLEM REPORTED: <u>Preventive Maintenance</u>								
PARAMETERS (Synergy Bio 1904C)		PARAMETERS (AutoLab Star Plus/ Versa)						
T: _____	A: _____	Pump Speed : _____						
Pump: _____	Front Board: _____	Gain Cal: _____	Pump Cal: _____					
		Pump Calibration: _____ 500 ul (800-1200 ul)						
FILTER STATUS:								
Filters in nm	340	405	505	546	578	630		
Gain								
A/D Value (for Star Plus & Versa)	42000	45000	48000	49000	52000	51000		
Abs of D/Water								
Instrument Status:								
Outer Body: <input checked="" type="checkbox"/>	Display: <input checked="" type="checkbox"/>	Key Pad: <input checked="" type="checkbox"/>	Pump Motor: <input checked="" type="checkbox"/>	Printer: <input checked="" type="checkbox"/>				
Aspiration Button: <input checked="" type="checkbox"/>	Tubing Set: <input checked="" type="checkbox"/>	Flow Cell: <input checked="" type="checkbox"/>	Internal Connectors: <input checked="" type="checkbox"/>	Software: <input checked="" type="checkbox"/>				
Remarks on the defective part / parts if any: _____								
SERVICE DETAILS								
FOLLOWING PARTS HAVE BEEN REPLACED (if changed)			TO BE FILLED IN BY CUSTOMER					
PART NO.	DESCRIPTION	QTY	PRICE					
<u>NIL</u>	<u>—</u>	<u>—</u>	<u>—</u>					
USED FROM <input type="checkbox"/> COMPANY'S STOCK <input type="checkbox"/> CUSTOMER'S STOCK								
SERVICE CHARGE / SPARE PARTS' CHARGE DETAILS:								
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ENGINEER'S REMARKS			DATE: _____					
<u>Instrument is working good.</u>			CUSTOMER SIGNATURE WITH SEAL					
ENGINEERS' SIGNATURE & NAME: <u>[Signature]</u>			OFFICE USE					
			RECEIVED ON: _____					
			CHECKED BY: _____					

Euro Diagnostic Systems Pvt. Ltd.

'Millenium House', M.K. Srinivasan Nagar Main Road, Perungudi, Chennai-600 096, Tamil Nadu, INDIA

Ph : 044-2496 0541, Fax : 044-24962825, Email : eurods@vsnl.net , Website : www.eurods.in



COSMOS CLINICS AND DIAGNOSTICS
 #503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bengaluru- 560091

September

Title	Daily Bio-chemistry QC Log -Normal	Document Number	CCD.LAB.FR. 14
Document Type	Format	Checked by / Approved by	TANVEER BANU / DR Nirupama .S
Prepared By	PRAVEEN	Issue MONTH	
QC LOT No.	26482		

Test Name	Range	Mean	DATE																																		
			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																			
Glucose	267-335	301	317	275	270	279	250	277	272	254	266	314	279	337	282	252	276																				
Urea	32.9-60.9	46.9	103	105	112	9	100	7	128	8	118	9	143	9	121	9	158	6	140	5	152	1	153	0	97	4											
Cholesterol	87-125	106	102	105	102	107			110	7	107	114	105	105	102	108	9	114	108	9	114	108	9	114	108	9	114	108	9	114	108	9	114	108	9	114	
Triglyceride	72-108	90.0	93	92	96	91	114	6	32	137	7	76	95	96	95	95	90	95	103	103	100	8	24														
T.protein	3.7-5.3	4.5	4.27	4.55	4.21	4.24			4.14	2	4.64	4.02	2	4.62	3	3.88	4	3.82	3	2.9	4	2.24	2	0.94	4	4.7											
Albumin																																					
SGOT	107-207	157	225	201	203	201	199	197	200	214	224	203	225	210	195	200	214	224	203	225	210	195	200	214	224	203	225	210	195	200	214	224	203	225	210	195	
SGPT	84-130	107	101	87	83	104	93	88	96	99	100	95	97	92	89	86	87																				
ALP	358-508	433	453	490	539	429	456	429	490	468	415	459	451	374	186	153																					
GGT	118-198	158	113	3	106	5	129	14	109	3	121	112	9	112	6	111	3	120	0	108	9	5	33	2	205	9	139	1	138	8	166	5					
Uric Acid	8.80-11.8	10.3	8.83	8.40	8.92	8.72	8.98	8.9	8.69	9.42	9.17	9.23	8.62	8.6	8.13	9.7	9.31																				
HDL	24.8-28.4	26.6	31.9	31.5	34.8	11.9	27.8	25.8	27.7	23.3	23.8	25.8	23.6	24.3	24.7	22.2	23.7	22.2	23.7	22.2	23.7	22.2	23.7	22.2	23.7	22.2	23.7	22.2	23.7	22.2	23.7	22.2	23.7	22.2	23.7	22.2	23.7
Creatinine	3.85-6.85	5.35	5.28	5.8	5.85	5.9	5.9	5.23	1.72	5.19	6.5	4.9	0.46	6.0	5.8	4.41	6.3																				
T Bill	3.50-5.30	4.40	5.11	4.9	5.6	5.7	5.6	5.2	5.16	5.2	5.15	5.8	3	5.38	5.25	5.00	5.1																				
D Bill	0.40-1.20	0.80	1.57	1.3	1.5	1.7	1.6	1.72	1.4	1.5	1.7	1.5	1.5	1.7	1.5	1.5	1.7	1.5	1.5	1.7	1.5	1.7	1.5	1.5	1.7	1.5	1.5	1.7	1.5	1.5	1.7	1.5	1.5	1.7	1.5	1.5	
CALCIUM	10.6-13.0	11.8	12.4	10.8	11.8	11.1	13.2	12.7	14.0	11.4	12.8	10.9	12.5	12.2	11.1	12.0	11.2																				
SIGN			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Handwritten signature and date: 13/9/20



COSMOS
CLINICS &
DIAGNOSTICS

#503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bengaluru-560091

COSMOS CLINICS AND DIAGNOSTICS

31/10/2021

Title	Daily Bio-chemistry QC Log - Normal		Document Number	CCD LAB.FR. 124
Document Type	Format	Checked by / Approved by	TANVEER BANU / DR Nirupama .S	
Prepared By	PR/VEEN	Issue MONTH		
QC LOT No.	26482			

Test Name	Range	Mean	DATE													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14
Glucose	267-335	301	306	353	292	304	284	285	293	319	281	266	276	264	366	287
Urea	32.9-60.9	46.9	116.5	119.3	140.5	126	146	117	110.7	120	130	98.5	166	208	298	260.2
Cholesterol	87-125	106	99	81	90	96	102	107	106	106	103	100	97	98	117	100
Triglyceride	72-108	90.0	92	92	89	96	99	123	96	96	92	93	93	100	118	91
T.protein	3.7-5.3	4.5	3.82	2.06	2.06	3.6	3.67	2.14	4.26	2.43	1.48	4.01	4.12	3.88	2.67	2.40
Albumin																
SGOT	107-207	157	184	174	161	183	159	158	161	147	111	61	90	108	205	157
SGPT	84-130	107	95	90	91	59	91	94	24	79	79	78	165	97	162	83
ALP	358-508	433	412	402	373	343	367	404	387	428	392	338	393	366	468	389
GGT	118-198	158	172	191	177	176	122	186	164	170	177	187	165	160	219	156.6
Uric Acid	8.80-11.8	10.3	9.12	8.46	8.72	8.99	8.95	9.56	7.58	8.82	8.35	8.82	8.28	8.31	9.38	7.62
HDL	24.8-28.4	26.6	40	40	42	41.3	42.9	40.2	30.8	38.8	43.8	41.9	37.4	33.8	40.7	28.4
Creatinine	3.85-6.85	5.35	5.34	2.88	3.99	5.41	5.91	1.63	6.05	6.01	8.34	4.57	5.85	5.78	3.94	5.43
T Bill	3.50-5.30	4.40	4.96	4.31	5.35	4.88	5.50	5.09	4.79	5.01	4.80	5.04	4.96	5.22	6.25	5.46
D Bill	0.40-1.20	0.80	1.53	1.58	1.51	1.45	1.34	1.75	1.73	1.51	1.57	1.51	1.57	1.52	1.75	1.48
CALCIUM	10.6-13.0	11.8	13	12.3	10.6	11.7	12.5	14.5	12.8	13.2	13.0	14.1	12.9	12.5	13.9	12.0
SIGN			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Outline parameters of note re reactivity - to calculate immunoassay



COSMOS CLINICS AND DIAGNOSTICS
 #503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bengaluru- 560091

August: 20

Title	BIO-CHEMISTRY (IQBIO) Maintenance Log	
Document Type	Format	Document Number
Prepared By	Mamatha	Checked by / Approved by
Revision No.	0	Issue Date
		CCD.LAB.FR.015
		Tanveer Bannu / Dr. Nirupama.S

Daily maintenance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Empty:	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solid waste container	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Remove outdated and empty:	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reagent pack and SRpacks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the signal reagent probe assembly	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspect:	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Universal sample trays	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Verify inventory and load:	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reagent packs and SRpacks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Weekly-date/initial boxes																															
Clean the samples metering probosics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the tip disposal chute/cup retainer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the sample supply system	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the sample supply system	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the touchscreen monitor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the key board and key board cover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perform subsystem cleaning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the processing center	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Operator' s initials	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Monthly maintenance																															
Back up QC files/calibration and Configuration file	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspect the reagent cooler filter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Every 2 months: change the vapour adsorption cartridge	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Every 3 months change the universal wash reservoir filter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
As required -date /initial boxes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the system cabinetry	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Date																															
Initial																															

Reviewed By
 Remarks:



COSMOS CLINICS AND DIAGNOSTICS
 #503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bengaluru- 560091

September 2021

Title	BIO-CHEMISTRY (IQBIO) Maintenance Log	
Document Type	Format	Document Number
Prepared By	Mamatha	Checked by / Approved by
Revision No.	0	Issue Date
		CCD.LAB.FR.015 Tanveer Banu / Dr.Nirupama.S

Daily maintenance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	Empty:	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solid waste container	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Remove outdated and empty:	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Reagent pack and SRpacks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Clean the signal reagent probe assembly	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Inspect:	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Universal sample trays	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Verify inventory and load:	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Reagent packs and SRpacks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Weekly-date/initial boxes	U/9/2021				16/9/2021				23/9/2021				29/9/2021																			Initial
Clean the samples metering probosics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the tip disposal chute/cup retainer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the sample supply system	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the touchscreen monitor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the key board and key board cover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Perform subsystem cleaning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Clean the processing center	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Operator' s initials																																

Reviewed By
Remarks:



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**iCubio iMagic- M7
Chemistry Analyzer**

Installation Qualification

Chemistry Analyzer – iCubio iMagic- M7

For

Phoenix Diagnostics

Sri Sai Vaibhav Complex, New MIG-115, KHB Colony, 2nd Stage,

80Feet Road, Basaveshwaranagar

Bengaluru, Karnataka 560079



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Chemistry Analyzer – iMagic- M7

Installation Qualification for Chemistry Analyzer – iMagic- M7

Product	: Chemistry Analyzer
Special Tools	: Standard Field Engineer's Tool Kit
Reference	: CHEMISTRY Analyzer User's Manual
Prepared by	: Technical Service Team
Facility	: Chennai
Location	: Chennai

Purpose

This section provides detailed installation protocol for the Chemistry Analyzer. You must follow the installation steps correctly to ensure proper installation, operation and service.

Scope

To be performed during new installation and relocation



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INTRODUCTION:

- Chemistry Analyzer is an automated In-Vitro Diagnostic Equipment for research purpose and can be used in laboratory
- Chemistry Analyzer is a kind of semi-automatic optic-electric color comparator

Accessories for CHEMISTRY Analyzer

Standard Accessories

- **Power wire**
- **Power adaptor**
- **Waste tube**
- **Print paper**
- **Reaction Cuvettes**
- **Reagent Bottles**
- **Personal Computer**



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Preparing for Installation

Pre Site Survey

The pre site survey is conducted by the Field Engineer to qualify and prepare a customer site before installation of an CHEMISTRY Analyzer. The CHEMISTRY Analyzer pre site survey is provided as an attachment to this document.

1. Complete the survey with the assistance of the Laboratory personnel
2. Indicate any abnormalities on the form
3. Indicate any un resolved issues
4. When all unresolved issues are closed, sign the appropriate section on the Approval sheet so that the Analyzer can be installed.

Installation Procedure

SAFETY NOTES



Follow the Operator's Manual!

Precise knowledge and attention to these operating instructions is required. Use On-line UPS with at least 45-60 minutes power backup.



DANGER! Danger of fatal electric shock!

Do not open the power adaptor. There are no elements inside which require servicing or maintenance. Never use a mechanically damaged power adaptor (or) plug – live connections might be exposed. The power adaptor plug is not insulated against fluid ingress. Never let liquids come into contact with it. Check that the mains voltage and frequency printed on the power adaptor plug type label match your mains socket and whether the shape and configuration of the plug contacts are compatible for the connection.



WARNING! Keep The Analyzer Away From Liquids!

The Analyzer is not insulated against fluid ingress. Take care that no liquids enters the analyzer. There is no Protection provided for the same.

IQ/ Chemistry Analyzer – **iMagic-M7**



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Operating Condition:

Temperature: 15 °C to 35 °C & Relative Humidity: 75%



WARNING! Never Open The Analyzer!

Maintenance and Repairs can only be carried out by us or by our Authorized Service Agent, using original spare parts that will maintain the high quality of the Analyzer.



Make your contribution to a clean environment!

Electrical and electronic device may contain endangering substances which have potential influence on the environment and human health. Old electrical and electronic equipment may not be disposed of under any circumstances in the unsorted domestic garbage.



Symbols used on the Shipper Carton

Symbols	Description
	Keep Away from Sunlight
	Fragile, Handle with Care
	Keep Dry
	This way up
	Do Not Pile Up More than 2
	Handle With Care



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	Manufacturer
	In-Vitro Diagnostic <i>Equipment</i>

Selecting a location for CHEMISTRY Analyzer

- Installation should be planned in a dust free area.
- Keep the analyzer on a stable and horizontal flat surface.
- Keep adequate space on all the sides of the analyzer, to ensure proper air circulation.
- Keep the analyzer away from centrifuge; oscillating agitators or other vibrating machines. CHEMISTRY is very sensitive to vibrations which can cause a false increase of results.
- Keep the analyzer away from electromagnetic devices that produce magnetic field.
- Keep the analyzer away from extreme changes of temperature; direct sunlight and humidity.


Optimum Environmental Conditions:-

- Temperature: 15 °C to 35 °C
- Relative Humidity: 75%

Adaptor Power requirements:-

- Type: Switching Power Supply
- Adaptor Input Voltage: AC100/240V±10% 50/60±1 Hz

Symbols used on the Analyzer

Symbols	Description
	Before Operating the CHEMISTRY Analyzer Please Read the Operator's Manual , Caution



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	Disposal and Recycling
	In-Vitro Diagnostic
	Manufactured Year
	Manufacturer

Connections

Attach the cables in the following order:

- Connect the Computer (PC) to the USB socket, if you intend to use the Data Management Software (DMS).
- Connect the power Cable provided to the power socket on the back of the analyzer.
- Plug the power Cable into the main power outlet and put ON the power switch on the rear of the analyzer. The display will show the software version
- **Note: It is recommended that the analyzer be plugged into a power surge protector for additional protection from power surges and fluctuations.**
-

Dis-Connections

- Switch OFF the power switch on the rear of the analyzer.
- To disconnect the analyzer, unplug the power adaptor from the wall outlet / on-line UPS.
- If required Unplug the Power Cable from main supply and disconnect the cable, connector & other accessories.
- It is not necessary to routinely disconnect the Analyzer when it is not in use.



WARNING! Note: Turn off the main power before removing or reinstalling any connectors on the analyzer.



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It is prohibited to use power supply with high-power equipment together, and it's better to equip with voltage-regulated power supply.

In areas with unstable voltage, use UPS to ensure the normal working of the analyzer.

- User Qualification: Only appropriately trained operators are qualified to operate the analyzer.

Note: Power cords and electrical outlets vary in appearance by region and country

Safety measures

- Environmental conditions: The analyzer is approved for indoor use only.
- Temperature: 15 °C to 35 °C, Relative Humidity: 75%
- **Electrical Safety:** As in all electrical equipments, the power supply is a potential source of danger.



WARNING! Never carry out maintenance on the equipment when it is under

Electrical tension.

- Until the analyzer remains closed as supplied, the operator is protected against electric shock.
- The analyzer is powered by low voltage and thus does not present the same dangers of the equipment's powered by an electrical line.
- The analyzer has a voltage elevator circuit, so it can provoke electrical shocks, but it is not dangerous for the trained personnel dedicated to the service assistance.
- Disconnect the power supply when the operator intervenes on the Analyzer's internal parts.
- Do not open or move the analyzer with the mechanical parts in movement.
- Read the instructions carefully before testing with the analyzer.
- **Mechanical Safety:** Do not open the analyzer without disconnecting it from the mains.
- Do not make contact with the mechanical parts in movement.
- The safety rules also apply even for the technically qualified service staff/operator while intervening on the analyzer.

Reagents: QC Reagents if in use follow the safety as well as the operating instructions of the manufacturers.



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Biological Safety: Liquid waste is potentially biologically



Hazardous: Always wear gloves if handling those materials.

Consult the laboratory protocol for handling bio-hazardous materials.

Unpacking & Installation

- Carefully unpack the Analyzer, removing it from its plastic bag.
- Keep the original boxes and packaging material until being assured that nothing is missing, that the unit has no (internal) transport damage and are working properly.
- It is recommended to securely keep the original packing and packaging material for further use. It can be used to transport the analyzer from one location to another and even for transportation for a service issue.

Re-Packing Instructions

- The Analyzer contains delicate electrical components and needs to be properly packed in the original packing & packaging material before shipping. Please contact us with any questions or to obtain the correct packaging materials.
- Unplug the Analyzer. Remove the cables, connectors and other accessories.
- Place the Analyzers in the thermo Cole packing and further in the shipper carton securely.
- Place all the Standard Accessories in the designated place along with the Analyzer.
- **Always ship the Analyzers and components as "FRAGILE"!**

Maintenance

- The electronic; electrical and mechanical component parts are simple & inside the analyzer and do not require special maintenance.
- The most sensitive part is the flow cell, please clean it every day after testing, do not leave reaction liquid in flow cell overnight.



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Customer Responsibilities

The safety of the unit and of the operator cannot be guaranteed if the following conditions are not satisfied:

- The mains should be "compatible" with the voltage and current specifications indicated on the nameplate placed on the rear of the unit. It is also advisable to periodically check the efficiency of the electric system.
- The mains should be equipped with a ground connection, as per current law requirements.
- It is recommended that the analyzer be plugged into a power surge protector for additional protection from power surges and fluctuations.
- Before connecting or disconnecting the external device, Analyzer should be switched off.
- Before connecting the unit with external devices (power input, LPT, etc.,) check that these are compatible with the technical specifications set.
- Individual safety means (gloves, disinfectant solution, etc.,) must always be made available.
- Operators should be familiar with the procedures, prohibitions and warning described in this manual, in addition with safety regulations applicable in the workplace.

Limited Warranty

- CHEMISTRY Analyzer is warranted to be free from defects in materials and workmanship under normal use and service, for a period of one year.
- The warranty is extended only to the original purchaser.
- The warranty shall not apply to any product or parts which have been damaged on account of improper installation without a online UPS and a CVT, improper connections, misuse, neglect, accident or abnormal conditions of operation.
- Any attempt to tamper with the product as evidenced by disruption of warranty sticker and/or unauthorised repair/modification of the product shall render this warranty null and void.
- If CHEMISTRY Analyzer is used in ways other than as specified in this User's Manual, the protection provided by the Analyzer may be impaired.



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Installation Checklist

S. No	Activity	Remarks (to be filled in by Field Engineer)
1	Un packing the instrument	
2	Checking Contents	
3	Installation & Repacking	
4	Installation of Instrument a. Locating instrument b. Checking Power Supply c. Optional Accessories	
5	Verification of Analyzer Level Surface	
6	Switch On a. Start Up sequence (Please record any abnormalities)	



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Phone: 044-2496 0541, Fax: 044-2496 2825, email: eurods@vsnl.net, WWW.eurodiagnostics.in

Installation Qualification Report

Equipment Name : **iMagic- M7**
Equipment Serial No : **31187417**
Software Version (if valid) : 6.4
Date of Installation / Relocation : 29/10/2018
Observation : Installation Requirements found to be satisfactory.

This is to certify that the iMagic-M7 CHEMISTRY Analyzer bearing Sr. No: is successfully installed and commissioned at **Phoenix Diagnostics, Sri Sai Vaibhav Complex, New MIG-115, KHB Colony, 2nd Stage, 80Feet Road, Basaveshwaranagar, Bengaluru, Karnataka- 560079.**

The installation/relocation protocol has been successfully completed as per the standard procedure and the instrument was found to be functioning satisfactorily. The instrument is ready for operational qualifications and further validations.

Performed by	
Name	Abhinand T
Designation	Service Engineer
Signature and Date	
Reviewed by	
Name	Sheshadri S
Designation	Business Development Manager
Signature and Date	
Approved by	
Name	
Designation	
Signature and Date	



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**iCubio iMagic- M7
Chemistry Analyzer**

Operational Qualification

Chemistry Analyzer – iCubio iMagic- M7

For

Phoenix Diagnostics

Sri Sai Vaibhav Complex, New MIG-115, KHB Colony, 2nd Stage,

80Feet Road, Basaveshwaranagar

Bengaluru, Karnataka 560079



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iMagic M7 Chemistry Analyzer

Operational Qualification for Autolab Versa Chemistry Analyzer

Product	: iMagic M7 Chemistry Analyzer
Special Tools	: Standard Field Engineer's Tool Kit
Reference	: iMagic M7 Chemistry Analyzer User's Manual
Prepared by	: Technical Service Team
Facility	: Chennai
Location	: Chennai

Purpose

This section provides detailed operational protocol for the Chemistry Analyzer. You must follow the installation steps correctly to ensure proper installation, operation and service.

Scope

To be performed during new installation, Modification and relocation



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Powering up the system

Adaptor Power requirements:-

- Type: Switching Power Supply



It is prohibited to use power supply with high-power equipment's together, and it's better to equip with voltage-regulated power Supply.

- In areas with unstable voltage, use UPS to ensure the normal working of the analyzer.
- User Qualification: Only appropriately trained operators are qualified to operate the analyzer.

Note: Power cords and electrical outlets vary in appearance by region and country



Optimum Environmental Conditions:-

- Temperature: 15 °C to 35 °C
- Relative Humidity: 75%

Connections

Attach the cables in the following order:

- Connect the Computer (PC) to the socket marked RS 232, if you intend to use the Data Management Software (DMS).
- Connect the power Cable provided to the power socket on the back of the analyzer.
- Plug the power Cable into the main power outlet and put ON the power switch on the rear of the analyzer. The display will show the software version and the printer self-check by printing some characters like "Testing Report" before motor initiation begins.
- **Note: It is recommended that the analyzer be plugged into a power surge protector for additional protection from power surges and fluctuations.**

Dis-Connections

- Switch OFF the power switch on the rear of the analyzer.
- To disconnect the analyzer, unplug the power adaptor from the wall outlet / on-line UPS.
- If required Unplug the Power adaptor from main supply and disconnect the cable, connector & other accessories.
- It is not necessary to routinely disconnect the Analyzer when it is not in use.



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WARNING! Note: Turn off the main power before removing or reinstalling any connectors on the analyzer.

SETTING UP AN ANALYZER & Selecting a location for Chemistry Analyzer

- Installation should be planned in a dust free area.
- Keep the analyzer on a stable and horizontal flat surface.
- Keep adequate space on all the sides of the analyzer, to ensure proper air circulation.
- Keep the analyzer away from centrifuge; oscillating agitators or other vibrating machines.
- Keep the analyzer away from electromagnetic devices that produce magnetic field.
- Keep the analyzer away from extreme changes of temperature; direct sunlight and humidity.
- Connect the power supply of the Chemistry Analyzer through an online UPS.

Performing instrument Calibrations

- The analyzer is pre-set, no configuration is necessary after switching ON.

Verifying Performance / Operating Procedure

- Connect the power supply through an online UPS.
- Connect a computer to the RS 232 port of the analyzer if you intend to you a Data Management Software (DMS) if required.
(Refer the separate instruction sheet for installation of DMS on the PC given in the CD supplied along with the Analyzer.)
- Switch ON the analyzer.
- Go to water blank, reagent blank, standard, QC, sample menu to do the tests.

Quality Control Tests for Labs

In order to make sure the correctness of the test result, the quality control sample should be tested on machine to verify the machine status.



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Operator Training

The operator training is conducted in two parts one for operating the instrument effectively, including principles of operation and performance of samples / controls.

The second part of training covers basic trouble shooting procedures which help to maintain and handle common errors. This training will be conducted by the Technical team.

For basic trouble shooting please refer User's Manual.

NOTE:

- **For safety reasons** it is advisable to **read carefully** the recommendations and instructions contained in this manual before installing and using the unit
- The User's Manual should be kept together with the analyzer for consultation when necessary.
- If Chemistry Analyzer is sold or transferred, make sure that the User's Manual is supplied along with the unit so that the new user receives all the necessary information regarding its functions and safety instructions. It is also suggested to store the original primary and secondary packing and packaging material received by you at the time of purchase of the unit so that the new user receives all the same which helps in shifting and transfer the unit safely.



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Technical Assistance Requests:

If technical assistance is required, contact the name supplier at the address indicated on the invoice at the time of delivery of the unit; otherwise contact the local Engineer or Technician suggested by the Supplier.

S. No	Activity	Observations & Remarks
1.	Powering up the system	Passed
2.	Checking Errors	Passed
3.	Procedures	
	a. Sampling	Working Fine
	b. Recording results	Working Fine
4.	Errors List	Working Fine
5.	Operator Training	Working Fine



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Operational Qualification Report

Equipment Name : **iMagic M7**

Equipment Serial No : **31187417**

Equipment ID No : **NA**

Software Version (if valid) : **6.2**

Date of Installation / Relocation : **29/10/2018**

Observation :

Deviation and Acceptance :

Conclusion

With reference to the Operational Procedure and the studies carried out in the laboratory, Chemistry Analyzer meets all criteria outlined for Operational Qualification.

Exceptional conditions, have been successfully addressed.



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The Analyzer is ready for Performance Qualification.

Performed by	
Name	Abhinand T
Designation	Service Engineer
Signature and Date	
Reviewed by	
Name	Sheshadri S
Designation	Business Development Manager
Signature and Date	
Approved by	
Name	
Designation	
Signature and Date	



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**iCubio- iMagic- M7
Chemistry Analyzer**

Performance Qualification

Chemistry Analyzer – iCubio iMagic- M7

For

Phoenix Diagnostics

Sri Sai Vaibhav Complex, New MIG-115, KHB Colony, 2nd Stage,

80Feet Road, Basaveshwaranagar

Bengaluru, Karnataka 560079



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Chemistry Analyzer – iMagic M7

Performance Qualification for Autolab VERSA Chemistry Analyzer

Product	: Chemistry Analyzer – iMagic M7
Special Tools	: Standard Field Engineer's Tool Kit
Reference	: Chemistry Analyzer iMagic M7 User's Manual
Prepared by	: Technical Service Team
Facility	: Chennai
Location	: Chennai

Purpose

To determine that the Chemistry Analyzer performs as intended by repeatedly running the instrument on its intended schedules and recording all relevant information and data. Results must demonstrate that performance consistently meets pre-determined specifications under normal conditions.

Scope

To be performed after the Installation and Operational Qualification have been completed and approved. To be performed after installation, modification or relocation and for re – validation at appropriate intervals



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Materials, Equipment, Documents

Laboratory's SOPs for normal operation of the instrument under test.

Quality control Material

Accuracy: The test parameter should fall within the manufacturer specified reference range.

Precision: The test parameter should be within the manufacturer specified reference range.

Quality Control Tests for Labs

- Good Laboratory Practices is to test every day at least one control (1 normal and 1 abnormal) to check if the analyzer is working correctly.
- This control stimulates the behavior of normal and abnormal human serum so can be used to test the analyzer's performances.
- Controls must be tested exactly as normal patient's specimen and results should be recorded on Quality Control Charts.
- Each laboratory can establish its own acceptability ranges if needed.

Automated Chemistry testing solution

Chemistry Analyzer is an automated In-Vitro Diagnostic Equipment for research purpose and can be used in laboratory for Clinical determination of biochemical component according to the color change caused by the reaction between serum & reagent.

Chemistry Analyzer can constantly and simultaneously.



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Technical Specifications for Chemistry Analyzer

Analysis method	1 point end, 2 point end (Sample blank), Kinetics, Fixed-time.
Optics	7 filters, 340, 405, 450, 505, 546, 578, 630. 2 more for optional
Lamp house	Long-life Tungsten Halogen Lamp(6V 10W), Auto-Sleep Function
Sample Position	20+2 positions, up to 71
Sample and reagent Probe	One Independent Probe with stirring function
Temperature	25, 30, 37°C and Room temperature. By means of Peltier elements
Reagent position	50 Positions, Refrigerated Reagent tray
Cuvette Specification	Optical diameter is 5.8mm
Photometric range	0.0000-3.0000 Abs
Operating system	Windows XP/7/8
Interface	Standard RS 232 with Multi Language
Interface	4 USB Host; 1 USB Slave; 1 Ethernet port USB ports(host) for Keyboard, Mouse, Printer, disk, Bar code reader etc. USB ports(slave) for PC connection(support PC software control function)
Operational Environment	Temperature: 10°C~37°C; Humidity: ≤85%
Power requirement	Wide power supply AC100-240V, 50/60Hz
Dimension	500mmx440mmx470mm
Weight	40Kg



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Performance Qualification Report

Equipment Name : iMagic M7
Equipment Serial No : 31187417
Equipment ID No : 31187417
Software Version (if valid) : 6.4
Date of Installation / Relocation : 29/10/2018
Observation :
Deviation and Acceptance :

Conclusion

With reference to the studies carried out in the Laboratory, it is determined that the analyzer meets all performance criteria and has passed Performance Qualification.

The Analyzer is ready for Specific Use.

Performed by	
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Name	Mr. Abhinand T
Designation	Service Engineer
Signature and Date	
Reviewed by	
Name	Sheshadri S
Designation	Business Development Manger
Signature and Date	
Approved by	
Name	
Designation	
Signature and Date	



Preventive Maintenance Report (PM Visit)

CUSTOMER NAME : COSMOS DIAGNOSTIC Date : 08 / 08 / 2021

Address :
 Door No : #503 Street Anekyehalli Main Road
 Area SMV Arcade District Bengaluru Pincode 560091
 State Karnataka Landmark Syndicate Bank layout
 Contact No : 9945670868 Email : lab@cosmosdiagnostics.in

Voltage : Line / Neutral 230 V, Line/Earth 230 V, Earth/Neutral : 0 V (Should not >005)
 Power Source : Direct / NPS / CVT

Instrument : I Magic M7 WORK CARRIED OUT AT
 SITE SERVICE CENTRE

SERIAL NO :

3	1	1	8	7	4	1	7				
---	---	---	---	---	---	---	---	--	--	--	--

PM Visit Number (Ex : 1st Visit or 2nd Visit) 2nd

WARRANTY
 AMC

NEXT CALIBRATION 09/08/2022

PARAMETERS
 T : OK A : OK Pump Speed : OK
 Pump : OK Front Board : OK Gain Cal : OK Pump Cal : OK

PARAMETERS : 950ul
 Pump Calibration : 500 ul (800-1200 ul)

FILTER STATUS :

Filters in nm	340	405	505	546	578	600	630
Gain	<u>15</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>
A/D Value	<u>20</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>
Abs of D/Water	<u>10</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>

Instrument Status :
 Outer Body : OK Display : OK Key Pad : OK Pump Motor : OK Printer : OK
 Aspiration Button : OK Tubing Set : OK Flow Cell : OK Internal Connectors : OK Software : OK
 Remarks on the defective part / parts if any : OK

ENGINEER'S REMARKS Calibration Completed
Calibration Period 08/08/21 to 08/08/22

CUSTOMER'S FEEDBACK

ENGINEER'S SIGNATURE & NAME :
Nikhil K [Signature]

Note : Very Important

Seal & Signature of the Customer