

INSTALLATION QUALIFICATION OPERATIONAL QUALIFICATION

&

PERFORMANCE QUALIFICATION

For the Instrument FUJI DRI CHEMISTRY ANALYZER

Model: FDC NX 500i

Serial No.: <u>56952923</u>

FUJIFILM INDIA PRIVATE LIMITED

Registered Office: Unit No. 504 & 505, 5th Floor, 349 Business Point, Western Express Highway, Andheri (East), Mumbai – 400069, Telephone: +91-22-42364000 Fax: +91-22-42364001.



VALIDATION REPORT

Equipment Name : Biochemistry Analyzer

Equipment Make : Fuji DRI-CHEM

Equipment Model No. : FDC NX 500i

Equipment Serial No. : 56952923

Manufacturer : FUJIFILM

Supplier : Fujifilm India Pvt. Ltd

Contact Name & Address : Fujifilm India Pvt. Ltd

Unitech Cyber Park,

8th Floor, Unit No.801-807,

Tower C, Sector -39,

Gurugram, Haryana-122001.

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I. Approval of IQ/OQ Procedure

Both Disha CRL (Clinical Reference Laboratory), Mumbai and Fujifilm India Pvt. Ltd. are jointly responsible for the Installation of FDC NX 500i Serial No. <u>56952923</u> in the Biochemistry Laboratory.

Validation Team From Vendor

Name : Mr. Navin Bhatia

Designation: Service Engineer

Signature :

Date : 31/05/2016

Company : Unique Diagnostics (FFIN Authorized Channel Partner)

Validation Team From Clinical Lab

Name : Ms. Mohammad Neyazudin

Designation: Technical Supervisor

Signature :

Date : 31/05/2016

Department: Biochemistry Laboratory, Disha CRL

Customer Authorization

Name : Dr.Santosh Wanave

Designation: Pathologist (MD Path)

Signature :

Date : 31/05/2016

Company : Disha CRL

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II. Instructions

- 1. This document is to be completed at the time the system is shifted to its current location (Clinical Laboratory) and setup for operation.
- 2. An authorized (Company) representative will check the entire system and enter specific data related to installation, operation and performance qualification.
- 3. Employees of (Customer) Clincial Laboratory will verify each result and sign the results. The member of Validation will carry this out.
- 4. All deviation from the normal specification to include any problems with installations will be noted under COMMENTS.
- 5. A Competent Authority (Customer) will supervise the the entire procedure and procvide the necessary Authorization of the procedure.

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III. Scope

This Installation Qualification Protocol is performed on the Fuji Dri Chem FDC NX 500i vide Serial No.56952923 located at Biochemistry Laboratory of Disha CRL (Clinical Reference Laboratory), Mumbai

This Protocol defines the documentation that is used to evaluate the instrument installtaion in accordance with the manufacturer's specification and intended use.

Successful completion of this protocol verifies that this instrument has been installed, operated in accordance with the intended usage.

Installation checks are performed to verify that the instrument has been installed with proper connection and utilities.

Operational qualifications will evaluate that the instrument have operational features available for the successful operation of instrument in accordance with the manufacturer's specifications.

Performance qualification will verify the actual functioning or performance of instrument.

IV. Certificate of Purchase Order Compliance

I certify to the best of my knowledge. The instrument Fuji Dri Chem FDC NX 500i vide Serial No <u>56952923</u> installed on <u>31/05/2016</u> is in compliance with the specification of the purchase order.

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V. Equipment Description

Sr. No.	Instrument Identification		Verified by	Date
1	Equipment Name	Fuji Dri Chem	Navin Bhatia	31 May'2016
2	Model	FDC NX 500i	Navin Bhatia	31 May'2016
3	Equipment ID.		Navin Bhatia	31 May'2016
4	Serial No.	56952923	Navin Bhatia	31 May'2016
5	Power, Voltage Limit	200VA, 100 – 240 V	Navin Bhatia	31 May'2016
6	Electromagnetic Compatibility	Class A (Confers to Part 15 of the FCC Rules)	Navin Bhatia	31 May'2016

VI. <u>Utilities</u>

Sr. No.	Instrument Identification		Verified by	Date					
1	Environemnt Condition		Navin Bhatia	31 May'2016					
	Free from Dust, electrical & Magnetic Interference	Yes	Navin Bhatia	31 May'2016					
	Temperature	15 -32 ⁰ C	Navin Bhatia	31 May'2016					
	Humidity (RH)	30 to 80%	Navin Bhatia	31 May'2016					
	Illumination (no vapor condensation)	<6000 lux	Navin Bhatia	31 May'2016					
If Instrui	If Instrument is to be used with the sample barcode reader illumination should be below 3,000 cd/m ² (lux)								
2	Adequate Space for Installation	At least 10 cm on the back and both the sides.	Navin Bhatia	31 May'2016					
3	Electrical Outlets			31 May'2016					

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Actual Voltage on site	240V	Navin Bhatia	31 May'2016
Grounding	<2V	Navin Bhatia	31 May'2016
Connected through UPS	Yes	Navin Bhatia	31 May'2016
Stabilizer	N/A		

VII. The Instrument Has Been Checked For The Following

Sr. No.	Verification		Verified by	Date
1	Instrument is identified	Yes	Navin Bhatia	31 May'2016
2	Manufacturer's specification are included	Yes	Navin Bhatia	31 May'2016
3	Accessories/Consumables are listed	Yes	Navin Bhatia	31 May'2016
4	Equipment Manual from the Manufacturer	Yes	Navin Bhatia	31 May'2016
5	Manufacturer certificate of compliance is attached	Yes	Navin Bhatia	31 May'2016

VIII. Accessories / Consumables

The following accessories were supplied with the instrument. Check "Verified by" in case they are found to be in order. Separate list included.

Sr. No.	Description	Qty.	Verified by	Date
1	Accessory Box	1	Navin Bhatia	31 May'2016

IX. List of Manuals and Certificates

Supplier provides the following with the instrument

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Sr. No.	Description	Qty.
1	Instruction Manual	Available
2	Purchase order	Available
3	Calibration Certificate	Available
4	Instrument / Kit approval certificate	Available
5	Training Records	Available
6	Certificate of Authorization / Training of engineer	Available

X. Maintenance

The instrument listed within this document will be placed under the control of purchasing institution with respect to proper maintenance procedures as detailed in the operator's manual.

The Maintenance procedures will be filled separately.

A trained analyst using the manuals provided with the instrumentation can perform simple maintenance. Upon expiration of the warranty period vendor will offer several level of maintenance agreements and performance testing services to assist you in maintaining GLP / GMP compliance.

Contacting your local representative and requesting the additional service agreement can supply additional information.

XI. Installation Procedure

a) Installation of Incubator Chamber

Follow the instructions mentioned in the quick installation guide.

b) Installation of Instrument

Follow the instructions mentioned in the installation guide.

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XII. Operational Qualification

Following features / functions are available in the instrument as per manufacturer's specification and verified for ex. Self-Test. Quality Control, Test Assay, CRP Calibration and Maintenance Checks.

Sr. No.	Description	Test Purpose	Verified by	Date
1	On Board Diluent Test	System Performance	Navin Bhatia	31 May'2016
2	Maintenance	Daily, weekly & Monthly	Navin Bhatia	31 May'2016
3	Test Assay	Biochemistry	Navin Bhatia	31 May'2016
4	Audit Trail	Yes	Navin Bhatia	31 May'2016
5	Interfacing Facility	Bi-Directional	Navin Bhatia	31 May'2016

XIII. Performance Qualification

Performance qualification validates the test procedure performed on the new instrument.

Performance qualification not only validates instrument performance but also test procedure.

Following are the steps required to validate your instrument and method.

- 1. Run QC inter day run to check the accuracy of parameters on Fuji Dri Chem.
- 2. Run known sample 10 times to check the precision of parameters.

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Accuracy Data:

			20	24						0.6	0.7	00	10	11	10	40	11	45			
Pa	Range	Q C	29- De	31- De	01-	02-	03-	04-	05-	06	07	09	10	11	12	13	14	15	Mea	SD	V
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1	3					2			2	15	15	15	15	15	14	15	14	14	149.		1.
	145 - 157	1	150	152	151	148	149	146	150	1	2	3	0	2	8	0	8	9	94	1.88	25
Na	405 405			10.000				20.000		13	12	12	13	13	12	13	13	13	130.		1.
	127 - 137	2	130	129	131	132	132	134	133	0	9	9	1	0	8	0	1	3	75	1.69	29
	3.60 - 4.40	1																			4.
К	3.00 - 4.40	1	4.2	4.1	3.9	3.7	3.7	3.9	4	4.1	4.2	4.1	4.2	4.3	4.1	3.9	3.7	3.9	4.00	0.19	83
IX.	5.60 - 6.60	2		2000										200000000000000000000000000000000000000			5000				3.
	0.00		6.1	6	5.8	5.7	5.7	5.9	6.1	6.2	6.4	6.5	6.4	6.2	6.1	5.9	6	6.2	6.08	0.24	96
	95 - 109	1	400	00		404	400			0.0			10	10	10	10	10	10	100.	2.00	2.
CL			100	98	99	101	102	99	97	96	98	99	1	3	4	6	4	5	75	3.00	98
	83 - 96	2	0.1	83	O.E.	96	00	91	00	90	90	87	88	07	86	00	90	93	87.7	2.62	2.
Cr			84	03	85	86	88	91	90	89	89	87	00	87	00	88	90	93	5	2.62	99
ea	3.80 - 4.80	2																			5.
t	0.00	_	4.1	4	4	3.9	4.2	4.1	4.3	4.5	4.4	4.6	4.7	4.6	4.5	4.3	4.2	4	4.28	0.25	89
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BU	13.3 - 17.2	1	1	9	8	5	14	9	2	1	5	7	2	5	2	7	2	7	3	0.86	63
N	41 - 49.5	2	48.	46.	47.	44.	45.	42.	48.	48.	46.	47.	48.		44.	45.	46.	47.	46.2		4.
	41 - 47.5		3	9	4	3	9	1	1	5	1	9	1	42	1	6	5	6	1	2.11	56
GP	69 - 88	2																	82.5		3.
T			84	85	81	80	82	78	87	78	79	80	84	85	86	85	84	83	6	2.90	51
	4.50 - 5.70	1	F 2	F 2	4.9	F 2	5.2	5.0	4.7	5.6	4.9	5.1		5.3	5.2	F 2	F 2	5.1	F 10	0.21	4.
TP			5.3	5.2	9	5.3	3	2 5	3.5	′	3.4)	5.2	2 5	3	5.2	187 254	5	5.19	0.21	00
	2.90 - 3.90	2	3.4	3.5	3.4 2	3.5	3.4 9	3.5	3.5 9	3.4	3.4 8	3.5	3.4	3.5 6	3.4 8	3	3.4 5	3.4	3.44	0.13	82
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	3.40 - 4.60	2	4.2	4	3	5	4.2	2	9	5	9	8	4.2	5	6	4.3	5	4.3	4.27	0.10	33
	120 - 184	1								15	15	15	16	15	15	15	16	15	159.		3.
AL	120 - 104	-	169	176	160	165	162	158	161	2	5	9	0	2	3	9	0	7	88	6.24	90
KP	685 - 894	2	0.000	400040020						77	74	75	75	75	74	76	76	77	758.	###	1.
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	3.0 - 4.0	1	2.0	2.6	2.6		2.0	2.6	2.6	2.6	2.7		2.0	2.0		2.0	2.0	2.5	2.66	0.10	2.
IP			3.8	3.6	3.6	3.7	3.8	3.6	3.6	3.6	3.7	3.8	3.6	3.6	3.8	3.6	3.6	3.5	3.66	0.10	64
	6.60 - 8.40	2	8.2	8	7.9 2	8.1	8.2	8.3	8.1	9	7.9 5	7.8 8	8.2	8	8.1	7.9 5	8	7.9 3	8.05	0.12	53
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GG	45 - 66	1	62	9	4	54	8	55	9	55	9	2	54	2	9	3	8	55	9	1.88	40
T	445 404		0.000,0000	3535	4100	15000.000		200 00000	77455	17	17	17	17	17	17	17	17	17	174.		3.
	147 - 194	2	195	170	177	172	173	-	172	2	5	2	3	2	5	4	7	2	73	5.95	40
	8.2 - 10.8	1														×					3.
Ca	0.2 - 10.0	1	9.7	-	9	9.2	9.1	8.9	8.8	8.9	9	9	9.1	8.9	9	8.8	9.3	8	8.98	0.35	93
Ju	11.4 - 14.5	2	14.		200	13.	14.	200	14.	14.	3000-200-0-20	14.	14.	14.	14.	14.	20	13.	14.1	Marie Marie Marie	1.
			4	-	14	9	1	14	2	1	14	3	5	2	1	2	14	9	3	0.18	24
	0.60 - 1.20	1	4	0.9	0.9	0.9		4.4	1.0	1.0			0.9	0.9		0.9	0.9	0.9	0.00	0.07	7.
-	0.00 1.00	00709	1	2	3	2	1	1.1	9	5	0.9	1.1	1	2	0.9	8	8	8	0.98	0.07	34
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0	87 - 111	2	99	98	95	97	96	95	98	97	95	98	96	99	98	95	96	98	96.8	1 /E	1.
G S			99	30	95	97	90	95	90	97	93	30	90	99	30	95	90	30	8	1.45	50
GL	63 - 82	1	77	77	75	74	75	76	74	75	76	75	77	78	75	74	73	72	75.1 9	1.60	2. 13
U	223 - 269	2								24	25	25	24	25	25	24	25	24	248.		0.
	223 207	_	250	246	251	249	248	250	245	4	0	0	9	1	0	8	0	8	69	2.09	84
Α	64 - 89	1																	76.9		2.
	01 07	•	79	78	77	77	78	79	76	75	74	73	75	76	80	79	77	78	4	1.98	58
M Y	279 - 349	2	200	210	244	245	242	24.4	210	30	30	32	31	31	31	31	31	31	311.	F F2	1.
			300	310	311	315	312	314	310	2	5	0	6	9	0	5	4	2	56	5.53	77
	30 - 62	1																	45.6		3.
LI		0.000	44	45	45	46	45	47	48	46	49	45	44	43	44	45	47	48	9	1.70	72
P	71 - 103	2																	84.7		2.
	, 1 100		81	84	85	84	83	86	87	85	84	86	87	82	84	85	86	87	5	1.77	09

Conclusion:

Accuracy was checked by running L1 & L2 controls for 15 days. CV% was all found with in 5% (acceptable limit).

Performance Qualification of Fuji Dri Chem Analyser NX 500i installed at Disha CRL (Clinical Reference Laboratory), was completed successfully. QC Check results show parameter within acceptable range.

QC Results

Pass

Certificate of Training

1. Technician Training

This certifies that the technicians listed below have received basic user training for the system described.

Sr. No.	Training Program	Initials	Date			
1	Instrument Setup	Trushi Sonavaria	02 Jun'2016			
2	System Operation	Trushi Sonavaria	02 Jun'2016			
3	Basic Troubleshooting	Trushi Sonavaria	02 Jun'2018			

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Training Given by : Trushi Sonavaria

Training Attended by :

- 1. Mohammad Neyazudin
- 2. Khan Gulzar Mohammad Israr
- 3. Shaiyad Ali
- 4. Khan Somaiya Jamaluddin
- 5. Zalte Komal Laxman
- 6. Dhamane Akanksha Anant
- 7. Dr. Sushant Chavan
- 8. Pragati Hankar

Validation Procedure Performed by FFIN

Name : Ms. Trushi Sonavaria

Designation: Application Specialist

Signature :

Date : 18/01/2019

Company : Fujifilm India Pvt. Ltd.

Validation Team From Clinical Lab

Name : Mr. Mohammad Neyazudin

Designation: Technical Supervisor

Signature :

Date : 18/01/2019

Department: Biochemistry Laboratory, Disha CRL

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Customer Authorization

Name : Dr. Santosh Wanave

Designation: (MD Path) Pathologist

Signature :

Date : 18/01/2019

Company: Disha CRL

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Subject: No Equipment Calibration Requirement for FDC NX600, NX500 and NX700

Design Change Reason	Action	Time frame
 □ Specification/Function change □ Pro-active improvement □ Serviceability □ Part Replacement □ Corrective Action □ Preventive Action □ Regulatory Compliance ■ Other (information) 	 □ Mandatory □ Recommended □ Not required () ■ Other (information only) 	 Immediately Next maintenance Upon trouble situation At your convenience Not Applicable Other ()

Date: 15 - April - 2021 Dept.: Medical Systems Business Div.

Originator: M.Jumawid Edited by: M. Jumawid Approved by: Y. Kashi

Affected Products: FUJI DRI-CHEM analyzers FDC NX600, NX500 and NX700

To whom it may concern:

This document certifies that FUJI DRI-CHEM analyzers FDC NX600, NX500 and NX700 do not require equipment calibration.

The quality of these analyzers is guaranteed through the following principle.

FUJI DRI-CHEM analyzers are equipped with reference white and black plates. The functions of these plates are 1) to adjust the gain for all the interference filters before every measurement, and 2) to assure that the analyzer is working within the manufacturer's quality standard. 2) is conducted after gain adjustment, where the optical densities of reflectance for these plates measured in a constant intervall, are checked. If the values exceed the threshold, the machine will indicate an error and the analyzer will not give a measurement result for this abnormal case.

The reference white and black plates are made from ceramic material which do not degrade over time, thus the quality of the analyzers can be confirmed over a long period of time.

- Special tools / Instruments : □ Yes No
- Supply of the articles : □ Yes No

If Yes, when:

Name / Code:

- Old parts after replaced : □ Yes No
- Report requirement after finished : □ Yes No