

**INSTALLATION QUALIFICATION  
OPERATIONAL QUALIFICATION  
&  
PERFORMANCE QUALIFICATION**

For the Instrument FUJI DRI CHEMISTRY ANALYZER

Model: FDC NX 500i

Serial No.: 56952923

**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.

Corporate Office: Unitech Cyber Park, Unit No. 801-807, 8th Floor, Tower C, Sector 39, Gurugram -122001, Haryana  
Telephone : +91-124-4325500, Fax : +91-124-4325555, Website : [www.fujifilm.com](http://www.fujifilm.com), Email : [contact@fujifilm.com](mailto:contact@fujifilm.com)

CIN: U24233DL2007PTC171054.

**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,  
8<sup>th</sup> Floor, Unit No.801-807,  
Tower C, Sector – 39,  
Gurugram, Haryana-122001.

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CIN: U24233DL2007PTC171054.

## **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. 56952923 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) Clinical 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 provide 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 installation 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 56952923 installed on 31/05/2016 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	<b>Fuji Dri Chem</b>	Navin Bhatia	31 May'2016
2	Model	<b>FDC NX 500i</b>	Navin Bhatia	31 May'2016
3	Equipment ID.	---	Navin Bhatia	31 May'2016
4	Serial No.	<b>56952923</b>	Navin Bhatia	31 May'2016
5	Power, Voltage Limit	<b>200VA, 100 – 240 V</b>	Navin Bhatia	31 May'2016
6	Electromagnetic Compatibility	<b>Class A (Confers to Part 15 of the FCC Rules)</b>	Navin Bhatia	31 May'2016

## VI. Utilities

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

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CIN: [U24233DL2007PTC171054](https://www.mca.gov.in/publication/CompanyDetails/U24233DL2007PTC171054).

	Actual Voltage on site	<b>240V</b>	Navin Bhatia	31 May'2016
	Grounding	<b>&lt;2V</b>	Navin Bhatia	31 May'2016
	Connected through UPS	<b>Yes</b>	Navin Bhatia	31 May'2016
	Stabilizer	---N/A---		

## **VII. The Instrument Has Been Checked For The Following**

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

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

## **IX. List of Manuals and Certificates**

Supplier provides the following with the instrument

### **FUJIFILM INDIA PRIVATE LIMITED**

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<b>Sr. No.</b>	<b>Description</b>	<b>Qty.</b>
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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CIN: [U24233DL2007PTC171054](https://www.mca21.com/company/U24233DL2007PTC171054).



**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.

<b>Sr. No.</b>	<b>Description</b>	<b>Test Purpose</b>	<b>Verified by</b>	<b>Date</b>
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:

Para	Range	QC	29-Dec	31-Dec	01-Jan	02-Jan	03-Jan	04-Jan	05-Jan	06-Jan	07-Jan	09-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	Mean	SD	CV %
Na	145 - 157	1	150	152	151	148	149	146	150	15	15	15	15	15	14	15	14	14	149.94	1.88	1.25
	127 - 137	2	130	129	131	132	132	134	133	13	12	12	13	13	12	13	13	13	130.75	1.69	1.29
K	3.60 - 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	4.83
	5.60 - 6.60	2	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	3.96
CL	95 - 109	1	100	98	99	101	102	99	97	96	98	99	10	10	10	10	10	10	100.75	3.00	2.98
	83 - 96	2	84	83	85	86	88	91	90	89	89	87	88	87	86	88	90	93	87.75	2.62	2.99
Cr eat	3.80 - 4.80	2	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	5.89
BU N	13.3 - 17.2	1	16.1	15.9	15.8	15.5	14	13.9	14.2	15.1	15.5	15.7	16.2	16.5	14.2	14.7	16.2	15.7	15.33	0.86	5.63
	41 - 49.5	2	48.3	46.9	47.4	44.3	45.9	42.1	48.1	48.5	46.1	47.9	48.1	42	44.1	45.6	46.5	47.6	46.21	2.11	4.56
GP T	69 - 88	2	84	85	81	80	82	78	87	78	79	80	84	85	86	85	84	83	82.56	2.90	3.51
TP	4.50 - 5.70	1	5.3	5.2	4.9	5.3	5.2	5.0	4.7	5.6	4.9	5.1	5.2	5.3	5.2	5.2	5.3	5.1	5.19	0.21	4.00
	2.90 - 3.90	2	3.4	3.5	3.4	3.5	3.4	3.5	3.5	3.4	3.4	3.5	3.4	3.5	3.4	3.4	3.5	3.4	3.44	0.13	3.82
AL B	> 6.00	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6.00	0.00	0.00
	3.40 - 4.60	2	4.2	4	4.2	4.4	4.2	4.3	4.2	4.3	4.3	4.2	4.2	4.2	4.2	4.3	4.2	4.3	4.27	0.10	2.33
AL KP	120 - 184	1	169	176	160	165	162	158	161	15	15	15	16	15	15	15	16	15	159.88	6.24	3.90
	685 - 894	2	746	784	750	752	769	749	770	77	74	75	75	75	74	76	76	77	758.94	###	1.52
IP	3.0 - 4.0	1	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	2.64
	6.60 - 8.40	2	8.2	8	7.9	8.1	8.2	8.3	8.1	7.9	7.9	7.8	8.2	8	8.1	7.9	8	7.9	8.05	0.12	1.53
GG T	45 - 66	1	62	55.9	55.4	54	53.8	55	55.9	55	54.9	54.2	54	55.2	54.9	55.3	55.8	55	55.39	1.88	3.40
	147 - 194	2	195	170	177	172	173	-	172	17	17	17	17	17	17	17	17	17	174.73	5.95	3.40
Ca	8.2 - 10.8	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	3.93
	11.4 - 14.5	2	14.4	-	14	13.9	14.1	14	14.2	14.1	14	14.3	14.5	14.2	14.1	14	14	13.9	14.13	0.18	1.24
TB IL	0.60 - 1.20	1	1	0.9	0.9	0.9	1	1.1	1.0	1.0	0.9	1.1	0.9	0.9	0.9	0.9	0.9	0.9	0.98	0.07	7.34
	2.7 - 4.3	2	3.7	-	3.6	3.5	3.5	3.6	3.7	3.8	3.9	3.8	3.8	3.7	3.6	3.7	3.5	3.6	3.67	0.12	3.37
TC	213 - 263	1	242	240	241	235	234	240	238	23	24	23	24	24	24	24	23	23	239.	2.27	0.

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H O	87 - 111	2	99	98	95	97	96	95	98	97	95	98	96	99	98	95	96	98	25		95
																			96.8	1.45	1.50
GL U	63 - 82	1	77	77	75	74	75	76	74	75	76	75	77	78	75	74	73	72	75.1		2.13
	223 - 269	2	250	246	251	249	248	250	245	24	25	25	24	25	25	24	25	24	248.		0.84
A M Y	64 - 89	1	79	78	77	77	78	79	76	75	74	73	75	76	80	79	77	78	76.9		2.58
	279 - 349	2	300	310	311	315	312	314	310	30	30	32	31	31	31	31	31	31	311.		1.77
LI P	30 - 62	1	44	45	45	46	45	47	48	46	49	45	44	43	44	45	47	48	45.6		3.72
	71 - 103	2	81	84	85	84	83	86	87	85	84	86	87	82	84	85	86	87	84.7		2.09

## Conclusion:

Accuracy was checked by running L1 & L2 controls for 15 days. CV% was all found within 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
<input type="checkbox"/> Specification/Function change <input type="checkbox"/> Pro-active improvement <input type="checkbox"/> Serviceability <input type="checkbox"/> Part Replacement <input type="checkbox"/> Corrective Action <input type="checkbox"/> Preventive Action <input type="checkbox"/> Regulatory Compliance <input checked="" type="checkbox"/> Other (information)	<input type="checkbox"/> Mandatory <input type="checkbox"/> Recommended <input type="checkbox"/> Not required ( ) <input checked="" type="checkbox"/> Other (information only)	<input type="checkbox"/> Immediately <input type="checkbox"/> Next maintenance <input type="checkbox"/> Upon trouble situation <input type="checkbox"/> At your convenience <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> 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 interval, 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