

Classification	Parameter	Measurement range (*)		Measurement time (min.)	
		Unit (A)	Unit (B)		
Biochemical tests	Enzymes	ALP	50 ~ 3500 U/L	0.84 ~ 58.45 $\mu$ kat/L	4
		AMYL	10 ~ 1800 U/L	0.17 ~ 30.06 $\mu$ kat/L	5
		CHE	5 ~ 500 U/L	0.08 ~ 8.35 $\mu$ kat/L	4.5
		CKMB	1 ~ 300 U/L	0.02 ~ 5.01 $\mu$ kat/L	5
		CPK	10 ~ 2000 U/L	0.17 ~ 33.40 $\mu$ kat/L	4
		GGT	10 ~ 1200 U/L	0.17 ~ 20.04 $\mu$ kat/L	5
		GOT/AST	10 ~ 1000 U/L	0.17 ~ 16.70 $\mu$ kat/L	4
		GPT/ALT	10 ~ 1000 U/L	0.17 ~ 16.70 $\mu$ kat/L	4
		LAP	10 ~ 500 U/L	0.17 ~ 8.35 $\mu$ kat/L	4
		LDH	50 ~ 900 U/L	0.84 ~ 15.03 $\mu$ kat/L	2
	General chemistry	ALB	1.0 ~ 6.0 g/dL	10~ 60 g/L	4
		BUN	5.0 ~ 140.0 mg/dL	1.79 ~ 49.98 mmol/L	4
		Ca	4.0 ~ 16.0 mg/dL	1.00 ~ 4.00 mmol/L	5
		CRE	0.2 ~ 24.0 mg/dL	18 ~ 2122 $\mu$ mol/L	5
		DBIL	0.1 ~ 16.0 mg/dL	2 ~ 274 $\mu$ mol/L	6
		GLU	10 ~ 600 mg/dL	0.6 ~ 33.3 mmol/L	6
		HDL-C	10 ~ 110 mg/dL	0.26 ~ 2.84 mmol/L	5
		IP	0.5 ~ 15.0 mg/dL	0.16 ~ 4.84 mmol/L	4.5
		Mg	0.2 ~ 7.0 mg/dL	0.08 ~ 2.88 mmol/L	2
		NH <sub>3</sub>	10 ~ 500 $\mu$ g/dL	7 ~ 357 $\mu$ mol/L	6
Electrolytes	TBIL	0.2 ~ 30.0 mg/dL	3 ~ 513 $\mu$ mol/L	6	
	TCHO	50 ~ 450 mg/dL	1.29 ~ 11.64 mmol/L	4	
	TCO <sub>2</sub>	5 ~ 40 mmol/L	5 ~ 40 mmol/L	5	
	TG	10 ~ 500 mg/dL	0.11 ~ 5.65 mmol/L	5	
	TP	2.0 ~ 11.0 g/dL	20 ~ 110 g/L	6	
	UA	0.5 ~ 18.0 mg/dL	30 ~ 1071 $\mu$ mol/L	4	
	Na	75 ~ 250 mEq/L	75 ~ 250 mmol/L	1	
	K	1.0 ~ 14.0 mEq/L	1.0 ~ 14.0 mmol/L		
Cl	50 ~ 175 mEq/L	50 ~ 175 mmol/L			
Immunological test	CRP	0.3 ~ 7.0 mg/dL	3 ~ 70 mg/L	5	

There are parameters which may not be available in your area. For details please contact your local distributor.

\*Unit (A) or (B) is available

### Calculations NEW

Calculated Parameter	Indication	Unit	Equation
LDL Cholesterol	LDL	mg/dL	LDL-C = TCHO value - (HDL-C value + TG value/5)
		mmol/L	LDL-C = TCHO value - (HDL-C value + TG value/2.2)
non-HDL Cholesterol	non-HDL	mg/dL or mmol/L	non-HDL = TCHO value - HDL-C value
Globulin	GLOB	g/dL or g/L	GLOB = TP value - ALB value
Albumin/Globulin ratio	ALB/GLOB	-	ALB/GLOB = ALB value / (TP value - ALB value)
BUN/Creatinine ratio	BUN/CRE	-	BUN/CRE = BUN value / CRE value
Anion Gap	Anion Gap	mEq/L or mmol/L	Anion Gap = Na value - (Cl value + TCO <sub>2</sub> value)

### Main specifications

Measurement test	Colorimetry 28 tests Electrolytes 3 tests
Throughput	Colorimetry 120 test/hour Combined 128 test/hour
Number of sample rack	1
Number of incubator cell	Colorimetry 12, Electrolytes 1
Measurement time	Colorimetry 2 to 6 minutes/test, Electrolytes 1 minute/3 tests (Na-K-Cl)
Sample type	Plasma, Serum, Whole blood*
Sample volume	Colorimetry 10 $\mu$ L/test, Electrolytes 50 $\mu$ L/3 tests (Na-K-Cl), CRP 5 $\mu$ L/test
Data transmission to PC	USB 2.0 or RS-232C Serial D-Sub 9 pin -9 pin cross cable
Data print	Thermal Printer
Electrical requirements	AC 100-240V, 50/60Hz, 2.5-1.1A
Dimensions	470 (W) × 360 (D) × 420 (H) mm
Weight	NX500 Approx. 25kg, NX500i Approx. 24kg
Operating temperature	15 to 32°C (59 to 89°F)
Operating humidity	30 to 80%RH

\*NH-W: Whole blood only NH-P: Plasma only  
Na-K-Cl: Plasma, Serum, Whole blood  
Other test items: Plasma, Serum

### DRI-CHEM NX500 Series

	NX500	NX500i
Electrolyte tests	●	●
Plasma Filter Function	●	
Automatic dilution	●	●

DRI-CHEM NX500 (Product : FUJII DRI-CHEM NX500/ FUJII DRI-CHEM NX500i)  
Please contact your local distributor for availability.

#### Option Item: Barcode Reader

Barcode reader is available  
as option item to read  
sample ID on sample tube.



The specifications and appearance of the present brochure may be changed without prior notification in order to improve the system. Please be sure to read the instruction manual carefully for proper use of the equipment.

**FUJIFILM**  
Value from Innovation

28 Colorimetric tests  
3 electrolytes tests  
6 calculated tests  
128 tests/hour

DRI-CHEM brings you a new world of Clinical Chemistry

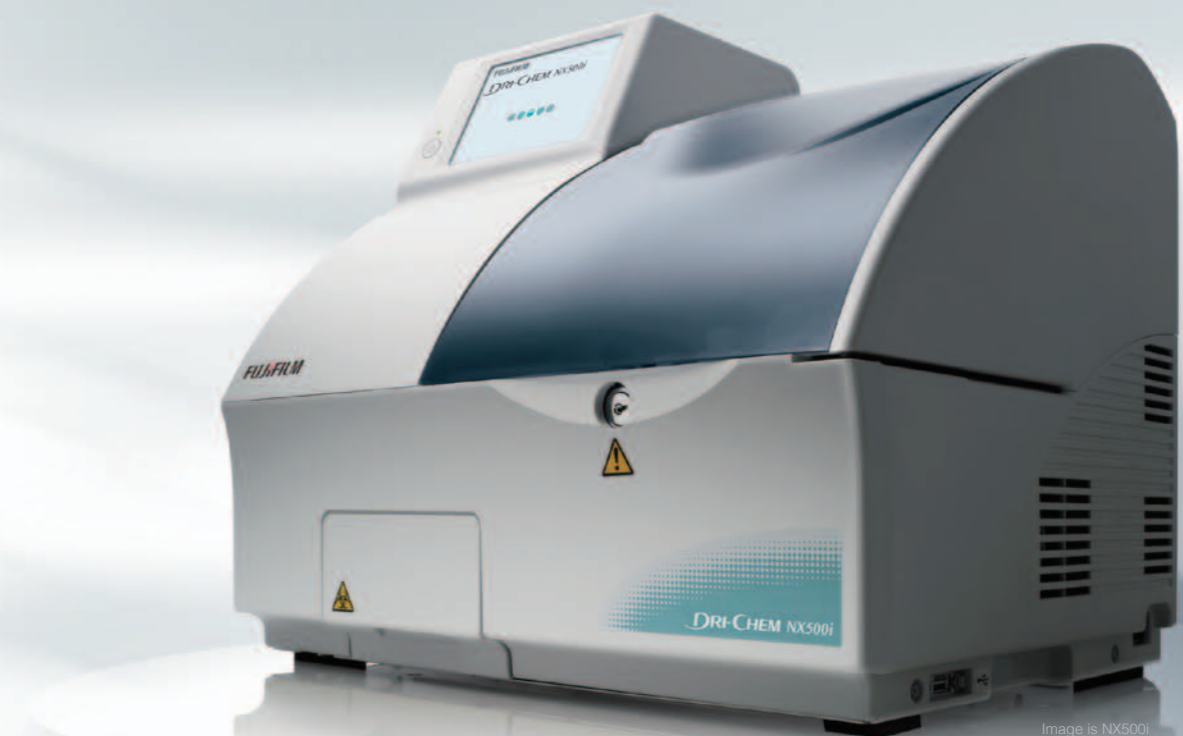


Image is NX500i

**DRI-CHEM NX500**

Automated Clinical Chemistry Analyzer

Equipped with  
new functionality



**FUJIFILM**

FUJIFILM Corporation

26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN  
http://www.fujifilm.com/products/medical/

# A New Generation of Clinical Chemistry

Safety and Simplicity in Operation, Compactness, Diversity in Tests.... ALL in ONE

## DRI-CHEM NX500

DRI-CHEM from FUJIFILM is a dry chemistry analyzer which can perform multiple test parameters of Clinical Chemistry. It has a built-in auto-pipetting system, requires no calibration and no water, providing easy preparation and maintenance. The new DRI-CHEM NX500 delivers results using a simple 3-step procedure. With its quick, easy operation and compactness, "Real Time and Borderless" Clinical Chemistry is made possible.

### Simple 3-step procedure

Fully Automated Procedure

1. Set the slide (Dry Slide Reagents). 2. Set the sample. 3. Press START.

No Parameter Input Required

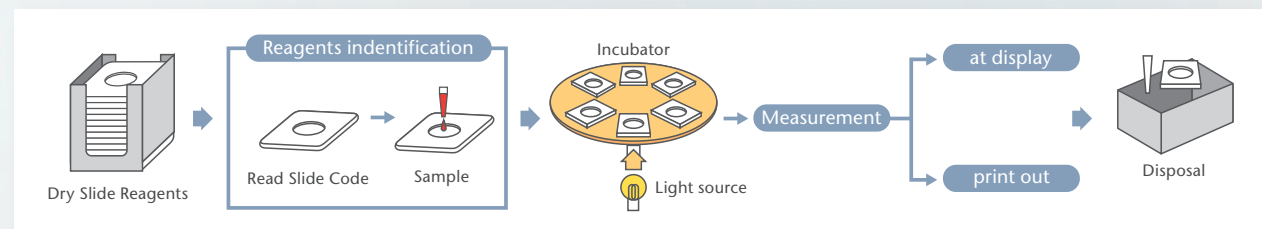
Information of the parameter is incorporated in the bar code printed on the back of every slide.



Set the slide (Dry Slide Reagents)

Set the sample

Press START



### Multiple Test Parameters High Throughput

Colorimetry + Electrolytes

28 tests 3 tests

128 tests/hour

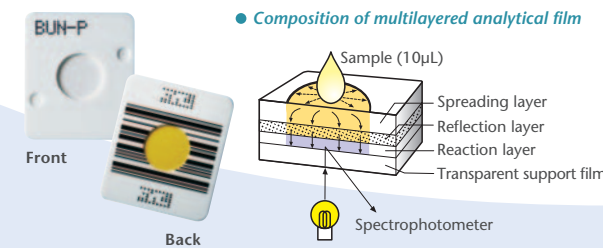


### Fujifilm DRI-CHEM SLIDE

#### Colorimetric method slide

(Enzymes, General chemistry, and Immunology)

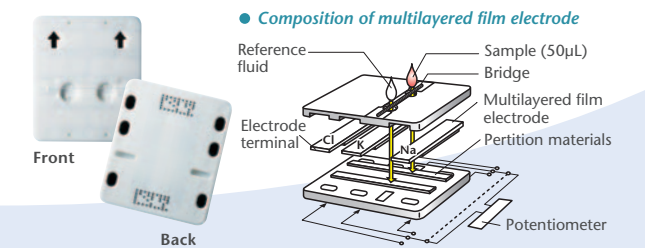
This multilayered slide is composed of dry chemical ingredients needed for the reaction and other functional materials. It quantifies enzymes and chemicals using colorimetric method.



#### Potentiometric method slide

(Electrolytes)

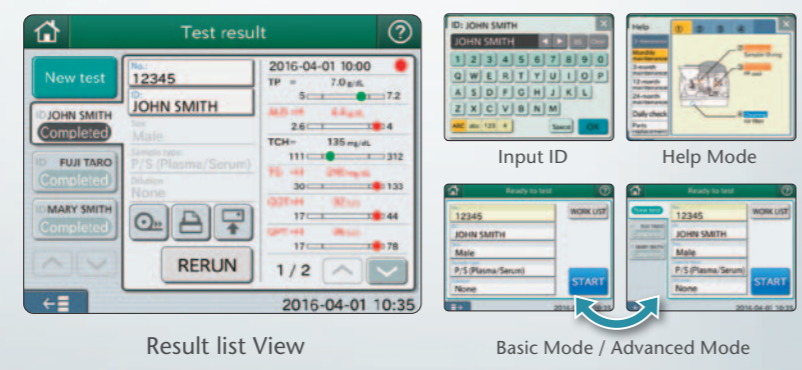
Each slide comes with an ion selective film electrode for each of Na, K, and Cl. Slides quantify electrolytes in the sample by a potentiometric method.





## Easy operation by touch screen

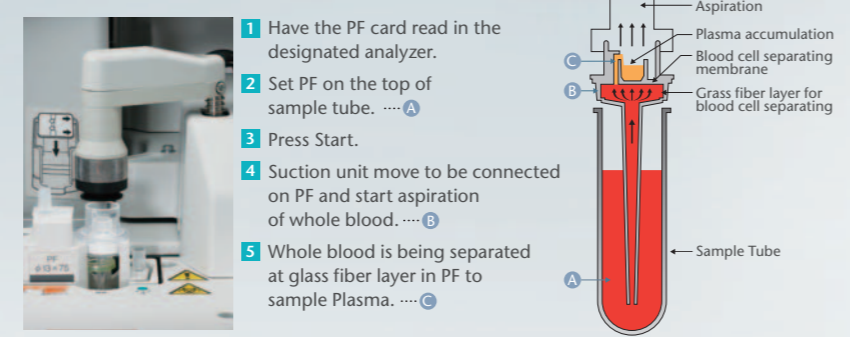
5.7 inch VGA, 640 × 480. Qwerty touch Key board. Basic Mode / Advanced Mode are available according to user preference. (Basic Mode: displays operation procedure for one sample only. Advanced Mode: displays operation procedure for one sample and measurement status for previous measured samples.)



Result list View      Basic Mode / Advanced Mode

## No pre-treatment of sample required

Plasma Filter (PF) can cut the turn around time and the pre-treatment process of the sample. It can generate plasma sample by aspirating and separating the whole blood inside the PF within 1 minute. Just set the PF on top of the sample tube and press START.



- 1 Have the PF card read in the designated analyzer.
- 2 Set PF on the top of sample tube. ....A
- 3 Press Start.
- 4 Suction unit move to be connected on PF and start aspiration of whole blood. ....B
- 5 Whole blood is being separated at glass fiber layer in PF to sample Plasma. ....C

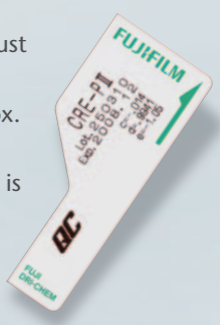
PF function is available in NX500 only.  
TCO2: not applicable



## No calibration required \* QC card system

A magnetic card called QC card will adjust the lot variability in the slide reagents. A QC card comes with every reagent box. The analyzer memorizes the lot adjustment information once a QC card is swiped. No need to swipe QC in every measurement for the same slide lot.

\*CRP: Further calibration by liquid calibrators is needed.  
ISE: QC card system is not used.

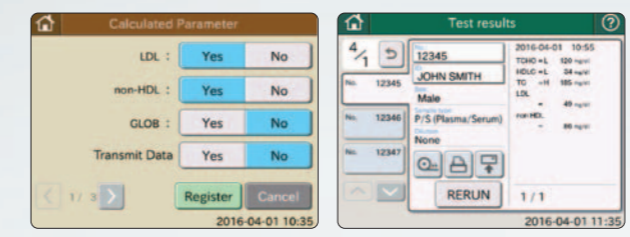


## A range of sample tubes can be used

- Blood Collection Tube (φ13~16 × 75~100mm)
- FUJI PLAIN TUBE (0.5mL, 1.5mL)
- FUJI HEPARIN TUBE (0.5mL, 1.5mL)

## NEW Calculation

The NX500 analyzer can provide results for 6 calculated parameters. No need for external calculation for commonly used parameters.



## Minimize the risk of biological hazard

Slide reagents after measurement will be automatically discarded to the disposal box, minimizing the risk of contamination.



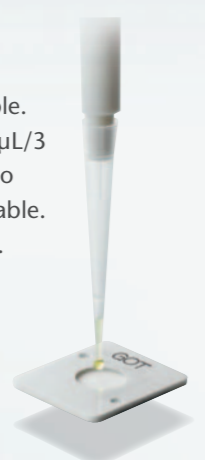
## Accurate and reliable test results from long term and field-proven technology & experience

The FUJI DRI-CHEM slide reagent has high reliability and stability brought by fine chemical technology cultivated through the long history of FUJIFILM in photographic film manufacturing. Less variation of results between operators, high result reproducibility and daily precision, and excellent correlation with wet chemistry are its remarkable features.

## Only 10µL/Test

Each test needs only 10µL of sample. (CRP needs 5µL/test, ISE needs 50µL/3 tests). Manual pipetting can be also performed when less sample available. Less invasive for newborn at NICU.

10µL/Test



## Automatic dilution

Dilution, a time consuming process, is also automated in FUJI DRI-CHEM. Just set the ratio of dilution and press START. Dilution test also can be performed simultaneously with the regular tests, requiring no separation of tests.

