Parameters

Classification		Parameter	Measurement range (*) Unit (A)	Measurement range (*) Unit (B)	Measurement time (min.)
Biochemical tests	Enzymes	ALP	14 ~ 1183 U/L	0.23 ~ 19.76 μ kat/L	4
		AMYL	10 ~ 1800 U/L	0.17 ~ 30.06 μ kat/L	5
		CHE	5 ~ 500 U/L	0.08 ~ 8.35 μ kat/L	4.5
		CKMB	1 ~ 300 U/L	0.02 ~ 5.01 μ kat/L	5
		CPK	10 ~ 2000 U/L	0.17 ~ 33.40 μ kat/L	4
		GGT	10 ~ 1200 U/L	0.17 ~ 20.04 μ kat/L	5
		GOT/AST	10 ~ 1000 U/L	0.17 ~ 16.70 μ kat/L	4
		GPT/ALT	10 ~ 1000 U/L	0.17 ~ 16.70 μ kat/L	4
		LAP	10 ~ 500 U/L	0.17 ~ 8.35 μ kat/L	4
		LDH	50 ~ 900 U/L	0.84 ~ 15.03 μ kat/L	2
		LIP	20 ~ 1000 U/L	0.33 ~ 16.70 μ kat/L	5
	General chemistry	ALB	1.0 ~ 6.0 g/dL	10 ~ 60 g/L	6
		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	4
		CRE	0.2 ~ 24.0 mg/dL	18 ~ 2122 μmol/L	5
		DBIL	0.1 ~ 16.0 mg/dL	2 ~ 274 μmol/L	5
		GLU	10 ~ 600 mg/dL	0.6 ~ 33.3 mmol/L	6
		HDL-C	10 ~ 110 mg/dL	0.26 ~ 2.84 mmol/L	6
		IP	0.5 ~ 15.0 mg/dL	0.16 ~ 4.84 mmol/L	5
		Mg	0.2 ~ 7.0 mg/dL	0.08 ~ 2.88 mmol/L	4.5
		NH_3	10 ~ 500 μg/dL	7 ~ 357 μmol/L	2
		TBIL	0.2 ~ 30.0 mg/dL	3 ~ 513 μmol/L	6
		TCHO	50 ~ 450 mg/dL	1.29 ~ 11.64 mmol/L	6
		TCO_2	5 ~ 40 mmol/L	5 ~ 40 mmol/L	5
		TG	10 ~ 500 mg/dL	0.11 ~ 5.65 mmol/L	4
		TP	2.0 ~ 11.0 g/dL	20 ~ 110 g/L	6
		UA	0.5 ~ 18.0 mg/dL	30 ~ 1071 μmol/L	4
	Electrolytes	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

Calculated Parameter	Indication	Unit	Equation
LDL Cholesterol	LDL	mg/dL	LDL-C = TCHO value - (HDL-C vlaue + 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_2 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 10μL/test, Electrolytes 50μL/3 tests (Na-K-Cl), CRP 5μL/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 89F)
Operating humidity	30 to 80%RH

*NH_3-W: Whole blood only NH_3-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:FUJI DRI-CHEM NX500/FUJI 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
FUJIFILM Corporation
26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN
http://www.fujifilm.com/products/medical/

Ref. No. NX500E R3 (18·01·F1079·F9711) Printed in Japan

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

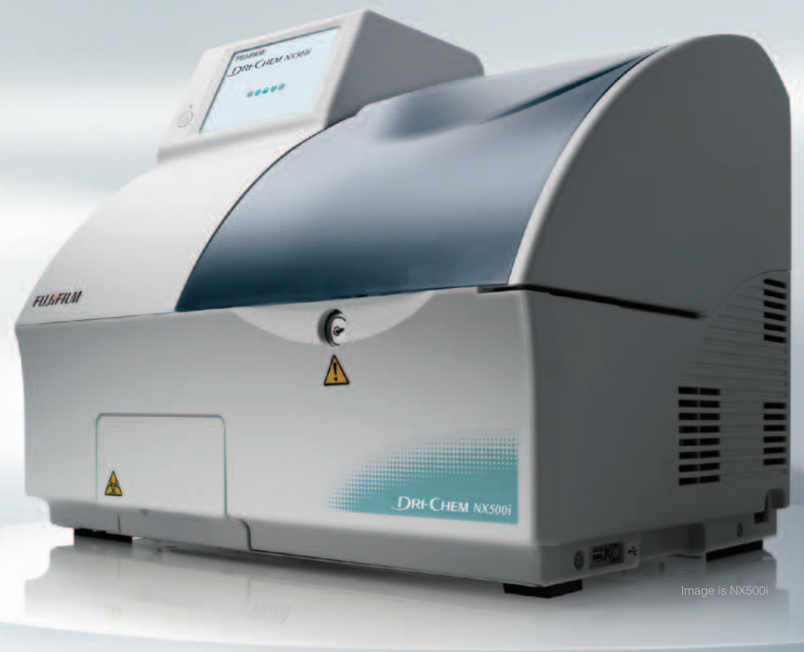


Image is NX500i

DRI-CHEM NX500

Automated Clinical Chemistry Analyzer

A New Generation of Clinical Chemistry

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

Image is NX500i

Multiple Test Parameters High Throughput

Colorimetry + Electrolytes

28 tests **3** tests

128 tests/hour

DRI-CHEM NX500

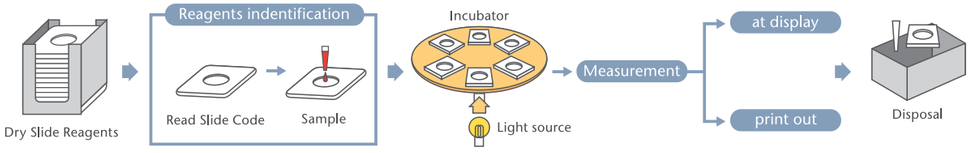
DRI-CHEM from FUJIFILM is a dry chemistry analyzer which can perform multiple test parameters of Clinical Chemistry.
It has a built-in auto-pipetting system, requires no calibration and no water, providing easy preparation and maintenance. The new DRI-CHEM NX500 delivers results using a simple 3-step 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**



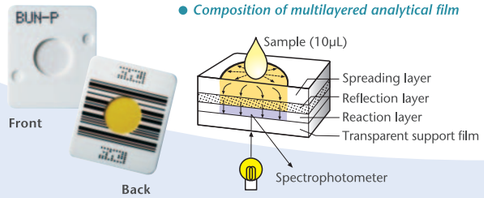
Fujifilm DRI-CHEM SLIDE

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.

● *Composition of multilayered analytical film*

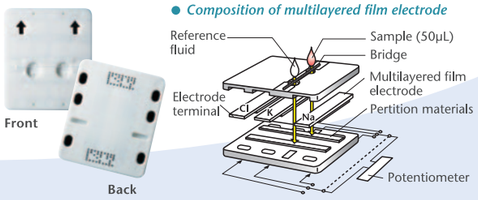


Potentiometric method slide

(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.

● *Composition of multilayered film electrode*



A New Generation of Clinical Chemistry

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

DRI-CHEM NX500

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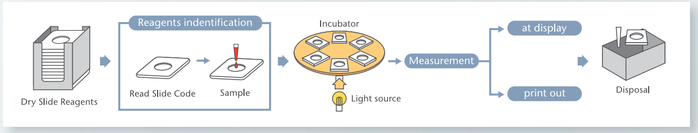


Easy operation by touch screen

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

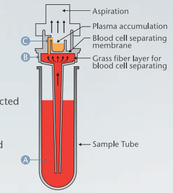
Input ID / Help Mode

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. ····Ⓐ
3. Press Start.
4. Suction unit move to be connected on PF and start aspiration of whole blood. ····Ⓑ
5. Whole blood is being separated at glass fiber layer in PF to sample Plasma. ····Ⓒ



PF function is available in NX500 only.
TCO_2: not applicable

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.

10 *µL/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.

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.

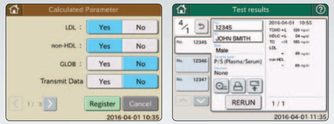
*CRP: Further calibration by liquid calibrators is needed.
ISE: QC card system is not used.

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)

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.