

## Parameters

Classification	Parameter	Measurement range		Measurement time (min.)
		Unit (A)	Unit (B)	
Biochemical tests	Enzymes	ALP	14 – 1183 U/L	0.23 – 19.76 µKat/L
		v-AMY	100 – 2500 U/L	1.67 – 41.75 µKat/L
		CPK	10 – 2000 U/L	0.17 – 33.40 µKat/L
		GGT	10 – 1200 U/L	0.17 – 20.04 µKat/L
		GOT/AST	10 – 1000 U/L	0.17 – 16.70 µKat/L
		GPT/ALT	10 – 1000 U/L	0.17 – 16.70 µKat/L
		v-LIP	10 – 1000 U/L	0.17 – 16.70 µKat/L
		LDH	50 – 900 U/L	0.84 – 15.03 µKat/L
	General chemistry	ALB	1.0 – 6.0 g/dL	10 – 60 g/L
		BUN	5.0 – 140.0 mg/dL	1.79 – 49.98 mmol/L
		Ca	4.0 – 16.0 mg/dL	1.00 – 4.00 mmol/L
		CRE	0.2 – 24.0 mg/dL	18 – 2122 µmol/L
		GLU	10 – 600 mg/dL	0.6 – 33.3 mmol/L
		IP	0.5 – 15.0 mg/dL	0.16 – 4.84 mmol/L
		Mg	0.2 – 7.0 mg/dL	0.08 – 2.88 mmol/L
		NH <sub>3</sub>	10 – 500 µg/dL	7 – 357 µmol/L
		TBIL	0.2 – 30.0 mg/dL	3 – 513 µmol/L
		TCHO	50 – 450 mg/dL	1.29 – 11.64 mmol/L
		TCO <sub>2</sub>	5 – 40 mmol/L	5 – 40 mmol/L
		TG	10 – 500 mg/dL	0.11 – 5.65 mmol/L
		TP	2.0 – 11.0 g/dL	20 – 110 g/L
		UA	0.5 – 18.0 mg/dL	30 – 1071 µmol/L
Electrolytes (on only one slide)	Na	75 – 250 mEq/L	75 – 250 mmol/L	
	K	1.0 – 14.0 mEq/L	1.0 – 14.0 mmol/L	1
	Cl	50 – 175 mEq/L	50 – 175 mmol/L	
Immunological Test	vc-CRP	0.3 – 7.0 mg/dL	3 – 70 mg/L	5
Comprehensive S-panel	TP, ALB, ALP, GLU, TBIL, IP, TCHO, GGT, GPT/ALT, Ca, CRE, BUN			
Pre-Surgical S-panel	TP, ALP, GLU, GPT/ALT, CRE, BUN			
Plus S-panel	TG, v-LIP, GOT/AST, v-AMY, Mg, Na-K-Cl			
Calculations	GLOB, ALB/GLOB, GOT/GPT, BUN/CRE, Na/K, Anion Gap			

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

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

\* v-LIP, v-AMY and vc-CRP slides are designed for veterinary use.

Other slides are designed for use in analyzing human blood. Measurement results may vary depending on the animal species. For details, please contact your local distributor.

## Specifications

Measurement test	Colorimetry 23 tests Electrolytes 3 tests
Throughput	Colorimetry 120 test/hour Combined 128 test/hour
Number of sample rack	1
Number of incubator cell	Colorimetry 13, 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)
Data transmission to PC	RS 232C (1 port), USB (2 port), LAN (1 port)
Data print	Thermal printer
Electrical requirements	Single phase AC; 100 - 240 V±10%; 50 to 60 Hz
Display	7 inch color touch panel
Dimensions	470 (W) x 360 (D) x 370 (H) mm
Weight	Approx. 27kg (NX600V IC) / Approx. 26kg (NX600V)
Operating temperature	15 to 32°C (59 to 89 °F)
Operating humidity	30 to 80% RH (no vapor condensation)
Altitude	Up to 2,000 m (810 hPa)

## Dimensions (mm)



## NX600V Series Products

	With electrolyte measuring function	With automatic dilution function	With centrifugal separation function
NX600V IC	●	●	●
NX600V	●	●	—

## Option Items

### Barcode Reader

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



**VYOMAX™**  
Empowering Diagnostics, Enabling Care



Small body, big flexibility.



10 µL  
/test



**Marketed By :**  
**VR HealthTech**

Plot No. 2, First Floor, N.K. Sharma Office Road  
Lohgarh, Zirakpur-140603,  
Distt. Mohali. Punjab  
E-mail : vrhealthtech@gmail.com  
Mobile : +91-9466104609 | www.vrhealthtec.com

*Manufactured By :*  
**FUJIFILM Corporation, Japan**

Automated Clinical Chemistry Analyzer

**NEW**

**DRI-CHEM NX600V**  
For Veterinary



## 3-step easy measurement



Using the item code recorded on the slide, the item and lot number are automatically identified. After pressing the start key everything through the printing of the measurement data is fully automatic.

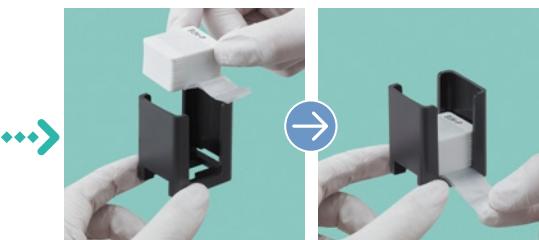
### One pack panels (S-panels)

Set multiple required items at once

One pack panels are also available. There is no need to open individually packed slides in a panel. This improves work efficiency and reduces waste.



Individually packed slides in a panel



Simply place it in the slide cartridge and remove the binding tape

### Measure directly from whole blood

#### Built-in centrifugal separation unit\*

Simply insert the whole blood in the dedicated IC cup and place the cup in the unit. Automatically execute everything from plasma extraction to analysis.

\*NX600V IC



#### Can also measure serum and plasma separated by external centrifugation

This is possible when there is a need to reduce the amount of blood sampled or use the plasma sample in other tests.



### Continuous measurement

#### Reduce waiting time

As soon as the pipetting procedure for the first sample is completed, the slides for the next sample can already be set and the test started. This minimizes waiting time for your patients.

#### NX600V processing cycle in minutes for 18 clinical parameters per patient sample

Analysis time in minutes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
First patient specimen (18 parameters)	Auto pipetting																
		Measurement															
			Results are shown														

... after approx. 10 minutes

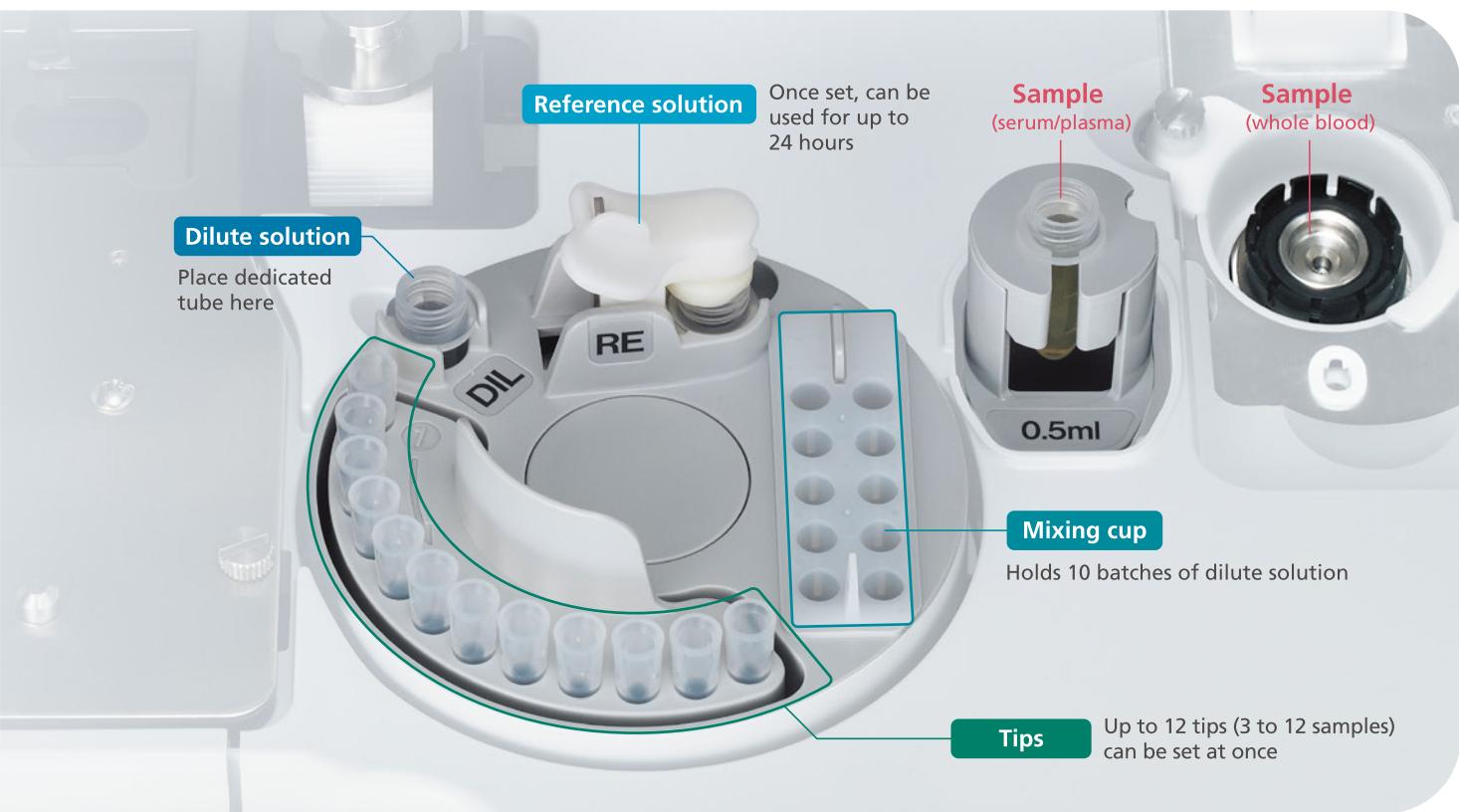
Analysis time in minutes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Second patient specimen (18 parameters)																	
	Auto pipetting																
		Measurement															

... after approx. 17 minutes

\* In case of whole blood samples, it will take another 2 minutes for the centrifugation for each sample.

# Improved design supports smooth workflow

User-friendly Fujifilm design



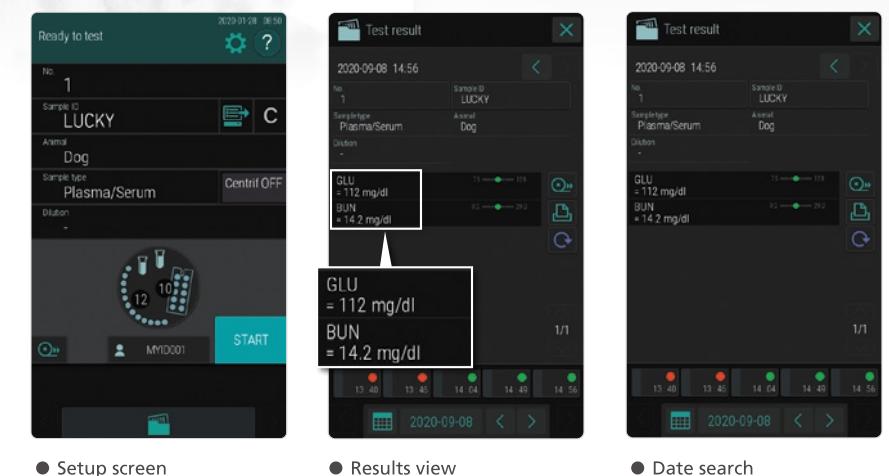
## Set consumables for multiple samples at once

The layout is simpler than our previous models, and this makes it easier to set consumables. Multiple tips can be set at once, which eliminates the need to set reference solution for each measurement. This reduces the frequency of consumable replacement.



## Large 7-inch intuitive LCD touch panel

The simple and easy-to-use operation screen provides a swift transition speed of 0.5 seconds or less for stress-free operation. A rich variety of help screens are also provided. This enables easy operation while checking illustrated usage and maintenance procedures.



## A rich variety of functions for flexible support



### Microsample testing

Only 10  $\mu$ L of sample is required for each test. (CRP: 5 $\mu$ L/test, ISE: 50 $\mu$ L/test, dead volume is necessary using automatic measurement.) A very useful feature especially in small animals. If there is less sample, measurement can be done by manual pipetting.



### High throughput

128 tests can be processed per hour.



### Automatic dilution function

Labor intensive operations like dispensing, mixing etc. are automated. The only user operation required is when selecting the dilution ratio.



### No Calibration

The FUJI DRI-CHEM system uses dry type reagents which are very stable. As the reagents are stable, calibration is not necessary and it utilizes a standard curve for the measurements. Variability in the reagent lots are adjusted using the QC card.

\*ISE: Calibration and correction are not necessary. QC card is not attached.



### Easy reagent lot information input by QC card

Information for every reagent lot that are needed for the measurement are easily input into the machine using the QC card.



### Reduces biohazard risks

Used slides and tips fall automatically into a disposal box. Reduces the risk of contact with specimens.



NX600V/NX600V IC scale for installation (mm)



# Achieve high-precision testing with reliable technology

High-quality slides utilize coating technology cultivated in the field of photography.

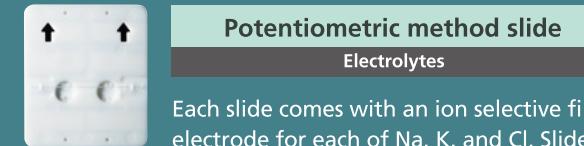
## FUJI DRI-CHEM SLIDE

Two types of slides are provided for different test items.



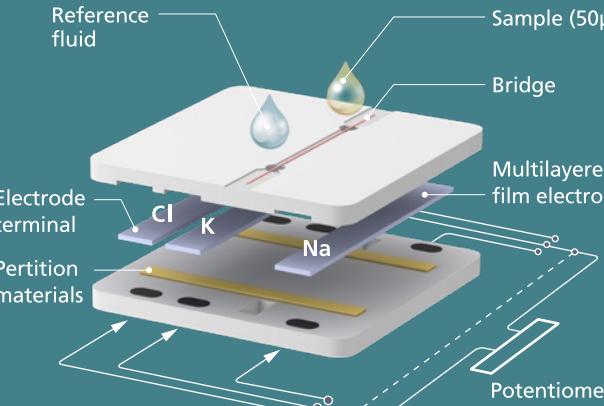
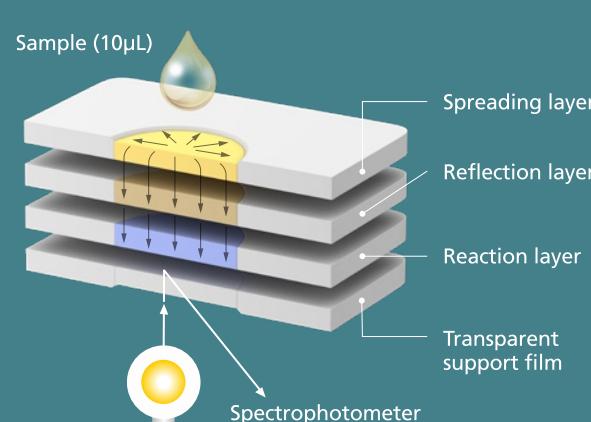
**Colorimetric method slide**  
Enzymes, General chemistry and Immunology

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

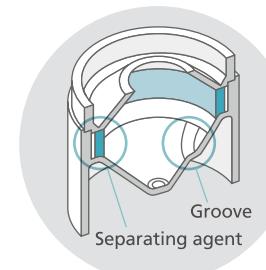
Each slide comes with an ion selective film electrode for each of Na, K, and Cl. Slides quantify electrolytes in the sample by a potentiometric method.



## Centrifugal separation cup (IC cup)

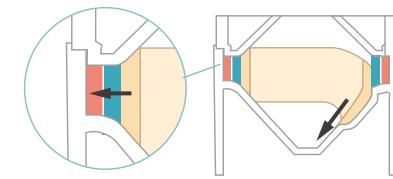


Injection straw  
heparin coating  
on inner wall

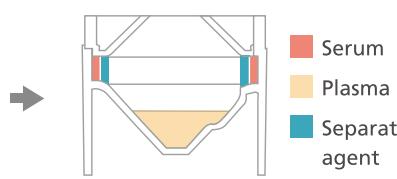


### Unique Fujifilm structure reduces risks

Inserting a syringe into the straw included with the cup and injecting the sample prevents sample scattering. Furthermore, an internal structure with a separation layer and groove reduces hemolysis and promotes the stable supply of good quality plasma.



The straw can be easily removed simply by tilting it.



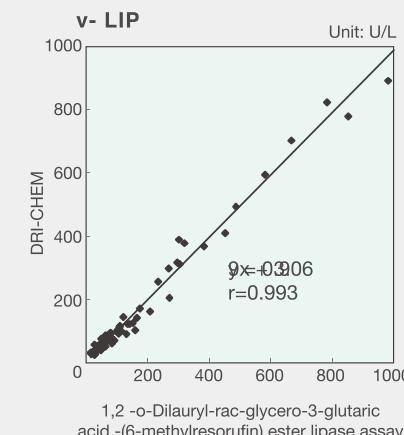
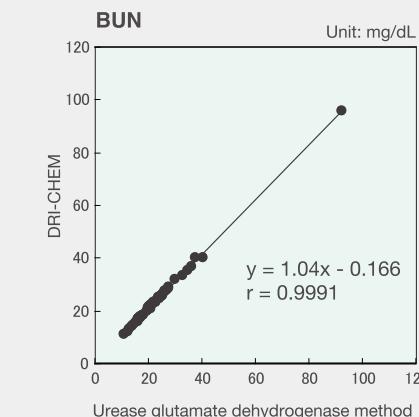
Centrifugal separation traps the blood cells with a large specific gravity on the outer side of the separating agent.

After separation, the plasma follows the groove and accumulates separately in the bottom of the cup.

- Serum
- Plasma
- Separating agent

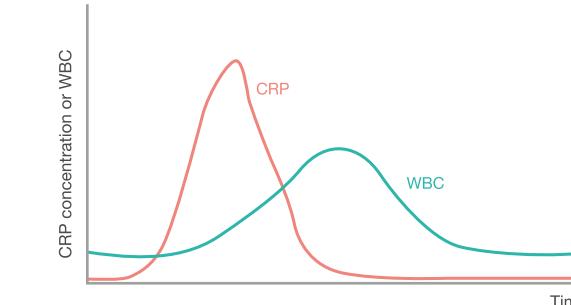
Based on technology and experience developed over many years, Fujifilm DRI-CHEM provides conclusive test results

Fujifilm DRI-CHEM slides achieve an extremely high degree of precision thanks to a special filter layer that reliably filters out any substances that could interfere with the serum or plasma specimen. The high quality of Fujifilm reagents is demonstrated by a comparison with the standard measurement methods.



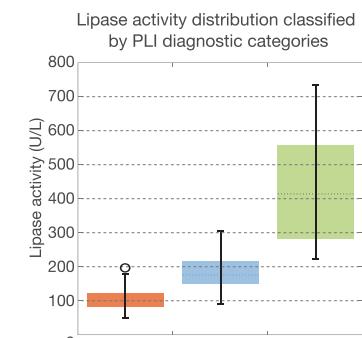
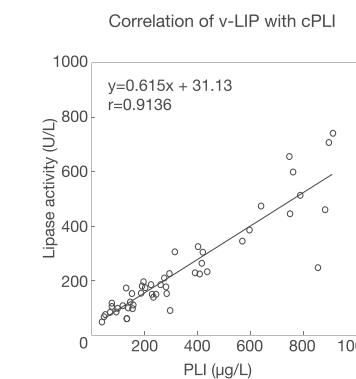
## Realtime diagnosis canine CRP test for inflammation screening

NX700V can measure lipase activity for canine CRP with the rest of the biochemistry test items.



## NX600V can measure lipase activity for canines

Lipase activity, which is useful for the screening of pancreatitis, can also be easily measured. This contributes to quick screening of pancreatitis onsite.



Citation: J.Vet.Med.Sci. 73(11):1481-1483, 2011 Katsumi Ishioka  
J-vet.vol.291 2011.6 pp13-15, pp25-29

## DRI-CHEM product lineup

providing total in-house diagnostic testing



**DRI-CHEM NX700V**  
Clinical chemistry analyzer

- High throughput 190 test/hour (colorimetry and ISE combined)
- 5 sample rack
- Without centrifugal separation unit



**DRI-CHEM NX600V**  
Clinical chemistry analyzer

- Single sample rack



**DRI-CHEM IMMUNO AU10V**  
Immunoassay analyzer

- v-T4, vc-TSH, v-COR, v-BA, v-PRG, vf-SAA