

The DRI-CHEM evolution continues:  
A walk-away benchtop clinical chemistry analyzer



**10 $\mu$ L**  
/test

Automated Clinical Chemistry Analyzer

**NEW**

***DRI-CHEM* NX700V**

# Envisioning the future of veterinary care—the new strength of FUJI DRI-CHEM

FUJI DRI-CHEM provides quick and reliable diagnosis for animals. The NX700V can be operated intuitively, allowing the system to be used by anybody. Moreover, its compact design allows flexibility in installation.

- A real walk-away system
- 10μL of sample for one test
- Efficient operation: maximum of 5 specimens in one operation.
- Large touch panel and new operation interface
- Intuitive and simple operation
- No calibration
- Easy reagent lot information input by QC card

***DRI-CHEM NX700V***



## Effective design

A large touch panel is used for the operation screen. The sliding type front cover prevents unnecessary consumption of space and provides easy handling. The ease of use from the new design enables smoother operation. Lastly, the exterior is specifically designed for better adaptability in any place.



# Workflow evolution generated by the new design

## Easy Operation

### Intuitive and simple operation

Simple and easy to use operational screen. Explanatory diagrams make the use, troubleshooting and the various maintenance procedures easy.

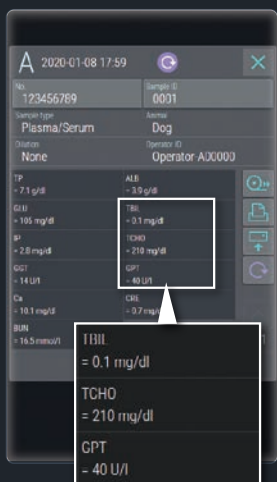


Test results can be printed.

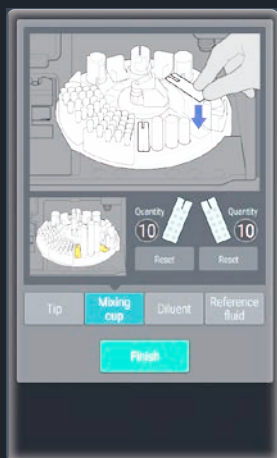
● Setup screen



● Display of results



● Help screen



### 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 until the printing of the measurement data is fully automatic.

#### STAT measurements

Press the "STAT" key during the measurement and set the emergency specimen. Just press "Start" after registration to perform the necessary test.



① Set slide



② Set specimen



③ Press the Start key



Space-saving design for the front cover



### Microsample testing A very useful feature especially in small animals

Each test requires 10µL of sample. (CRP: 5µL/test, ISE: 50µL/test, dead volume is necessary using automatic measurement.) If there is less sample, measurement can be done by manual pipetting.

## Relief & Safety

### 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.



### 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.

### 5 specimens can be set at the same time

It is possible to set 5 specimens at the same time and specimen feed is also automated. No operations are required after pressing the Start key. This helps to shorten operation time and improve efficiency.



### Automatic dilution function

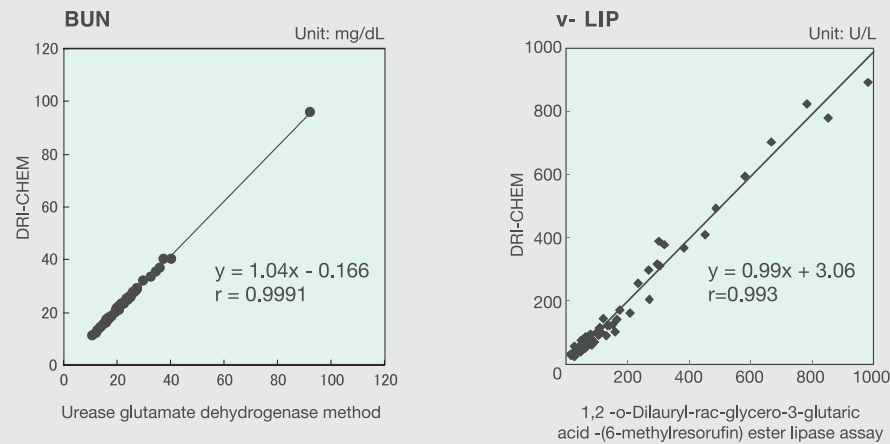
Labor intensive operations like dispensing, mixing etc. are automated. The only user operation required is when selecting the dilution ratio.

### Electrolyte measurement function

Colorimetric and electrolyte items (Na-K-Cl) can be measured at the same time.

Based on technology and know-how developed over many years,  
it is possible to obtain 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.

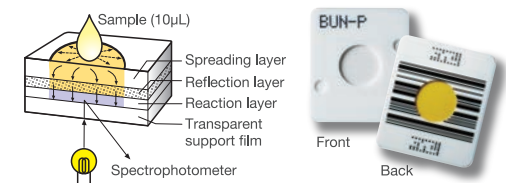


FUJI DRI-CHEM SLIDE

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.

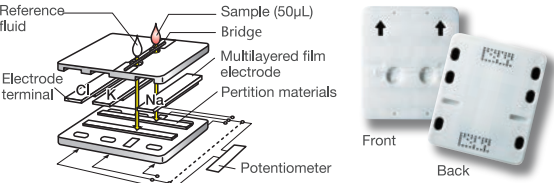
Composition of multilayered analytical film



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



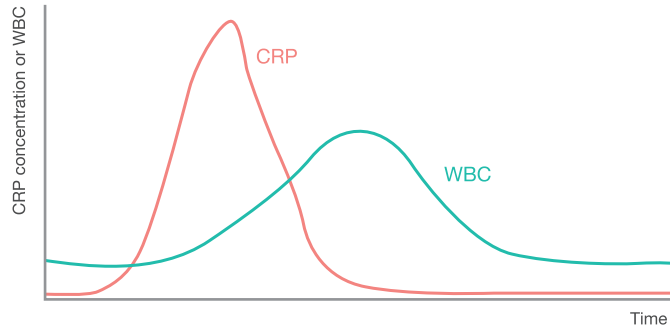
One pack panels (S-panels)

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



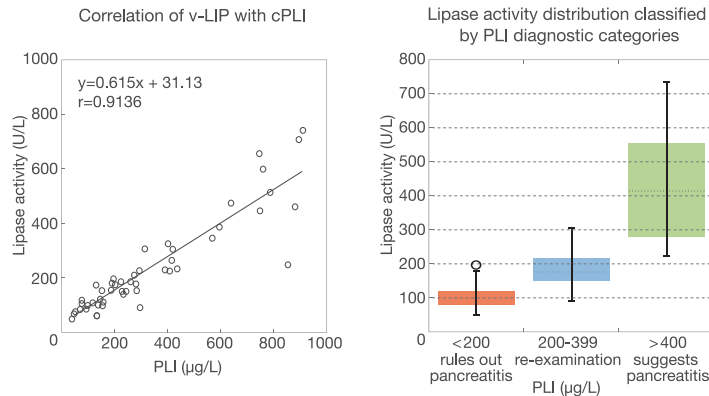
Realtime diagnosis  
Canine CRP test for  
inflammation screening

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



NX700V can measure lipase  
activity for canine

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

NX700 and AU10V  
providing total in-house diagnostic testing



DRI-CHEM NX700V  
Clinical Chemistry tests



DRI-CHEM IMMUNO AU10V  
Immunological Tests  
(v-T4, vc-TSH, v-COR, v-BA)



Parameters

Classification		Parameter	Measurement range				Measurement time (min.)		
			Unit (A)		Unit (B)				
Biochemical tests	Enzymes	ALP	14	– 1183	U/L	0.23	– 19.76	μ Kat/L	4
		v-AMYL	100	– 2500	U/L	1.67	– 41.75	μ Kat/L	3
		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
		v-LIP	10	– 1000	U/L	0.17	– 16.70	μ Kat/L	5
	LDH	50	– 900	U/L	0.84	– 15.03	μ Kat/L	2	
	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	μ mol/L	5
		GLU	10	– 600	mg/dL	0.6	– 33.3	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 <sub>3</sub>	10	– 500	μg/dL	7	– 357	μ mol/L	2
		TBIL	0.2	– 30.0	mg/dL	3	– 513	μ mol/L	6
		TCHO	50	– 450	mg/dL	1.29	– 11.64	mmol/L	6
		TCO <sub>2</sub>	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	μ mol/L	4	
	Electrolytes (on only one slide)	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		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							
Calculations		GLOB, ALB/GLOB, GOT/GPT, BUN/CRE, Na/K, Anion Gap							

\* Unit (A) or (B) is available  
\* There are parameters which may not be available in your area. For details please contact your local distributor.

Specifications

Measurement test	Colorimetry 23 tests Electrolytes 3 tests
Throughput	Colorimetry 180 test/ hour Combined 190 test/ hour
Number of sample rack	5
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 (1 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	500 (W) × 380 (D) × 410 (H) mm
Weight	Approx. 33kg
Operating temperature	15 to 32°C (59 to 89 °F)
Operating humidity	30 to 80% RH (no vapor condensation)

\*NH<sub>3</sub>-P: Plasma only  
Na, K, Cl: Plasma, Serum, Whole blood  
Other test items: Plasma, Serum

Option

Barcode reader	Barcode reader is available as option item to read sample ID on sample tube.
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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. There are some different specifications between the veterinary analyzer and the human one. Please ask your local distributor for the availability.

DRI-CHEM NX700V (Product: FUJII DRI-CHEM NX700iV)

Read more about our Medical Solutions: [www.fujifilm.com](http://www.fujifilm.com)

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<http://www.fujifilm.com/products/medical/>

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FUJIFILM  
Value from Innovation

The DRI-CHEM evolution continues:  
A walk-away benchtop clinical chemistry analyzer



10μL  
/test

Automated Clinical Chemistry Analyzer **NEW**

DRI-CHEM NX700V