

FUJI DRI-CHEM AU20V Specifications

Measurement method	Surface plasmon-enhanced fluorometry
Test Parameters	Serum amyloid A (SAA), progesterone (PRG), thyroxine (T4), thyroid-stimulating hormone (TSH), cortisol (COR), bile acids (BA)
Data memory	270 tests
Setup time	3 min (time from power ON to measurement ready)
Power	AC 100-240V ±10%, 50-60Hz,1.4-0.8A
Dimensions	W250 × D330 × H320 mm
Weight	Approx. 9 kg

Options



Reagent Cartridges Specifications (sold separately)

FUJI DRI-CHEM IMMUNO AU CARTRIDGE vF-SAA	
Parameters	Serum amyloid A (SAA)
Type of sample	Feline serum, Feline plasma (dilution measurement only for serum and plasma)
Measurement range	3.75–225.0 µg/mL
Measurement time	Approx. 10 min*
Required sample volume	10 µL



FUJI DRI-CHEM IMMUNO AU CARTRIDGE v-PRG	
Parameters	Progesterone (PRG)
Type of sample	Canine serum Canine plasma
Measurement range	0.20–40.00 ng/mL (0.64 -127.20 nmol/L)
Measurement time	Approx. 10 min*
Required sample volume	100 µL



FUJI DRI-CHEM IMMUNO AU CARTRIDGE v-T4	
Parameters	Thyroxine (T4)
Type of sample	Canine serum, Feline serum Canine plasma, Feline plasma
Measurement range	0.50 - 8.00 µg/dL (6.4 - 103.0 nmol/L)
Measurement time	Approx. 10 min*
Required sample volume	100 µL



FUJI DRI-CHEM IMMUNO AU CARTRIDGE vC-TSH	
Parameters	Thyroid-stimulating hormone (TSH)
Type of sample	Canine serum Canine plasma
Measurement range	0.25–5.00 ng/mL
Measurement time	Approx. 10 min*
Required sample volume	100 µL



FUJI DRI-CHEM IMMUNO AU CARTRIDGE v-COR	
Parameters	Cortisol (COR)
Type of sample	Canine serum, Canine plasma (dilution measurement only for plasma)
Measurement range	1.0–30.0 µg/dL(27.6 - 828.0 nmol/L) 1.0–50.0 µg/dL(27.6 - 1380.0 nmol/L) for dilution measurement
Measurement time	Approx. 10 min*
Required sample volume	20 µL 100 µL for Basic (Undiluted) measurement



FUJI DRI-CHEM IMMUNO AU CARTRIDGE v-BA	
Parameters	Bile acids (BA)
Type of sample	Canine serum, Feline serum Canine plasma, Feline plasma
Measurement range	2.0–150.0 µmol/L
Measurement time	Approx. 10 min*
Required sample volume	100 µL



*At 24°C. The measurement time may vary depending on the ambient temperature.

Consumables for DRI-CHEM analyzers

Tubes (500 pieces / box)	Tips (576 pieces / box)
- FUJI HEPARIN TUBE 0.5 mL - FUJI HEPARIN TUBE 1.5 mL - FUJI PLAIN TUBE 0.5mL - FUJI PLAIN TUBE 1.5 mL	- FUJI AUTO TIPS

FUJIFILM
Value from Innovation



Automated Fluorescence Immunoassay Analyzer

DRI-CHEM AU20V

• External appearance and specification are subject to change without notice.
• Please read the instruction manual when using this product.

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FUJIFILM

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Multiple test parameters in simple operation


A clinical workflow game changer analyzer





SAA (serum amyloid A)
Feline inflammatory marker




PRG (progesterone)
Reproductive Management




T4 (thyroxine)
Thyroid function test




TSH (thyroid-stimulating hormone)
Thyroid function test



COR (cortisol)
Adrenal function test



BA (bile acids)
Liver function test



Test measurements, results confirmation and reporting to pet owners are all done in one place.

The newly launched DRI-CHEM AU20V can provide you an efficient clinical workflow.

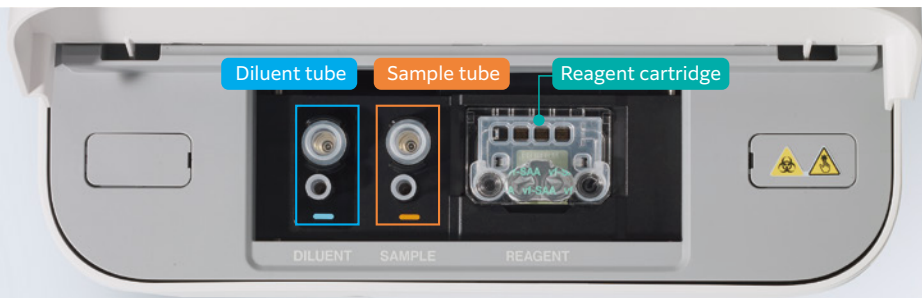
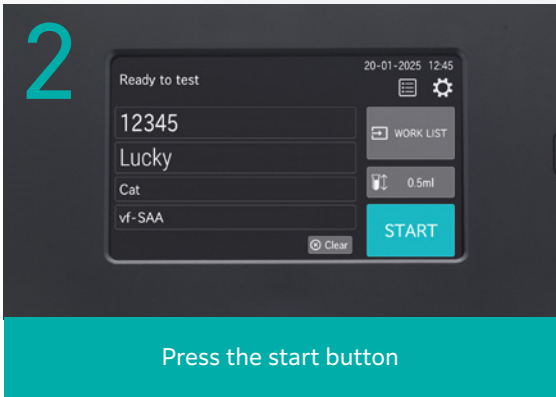
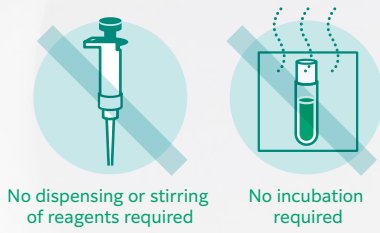
DRI-CHEM AU20V



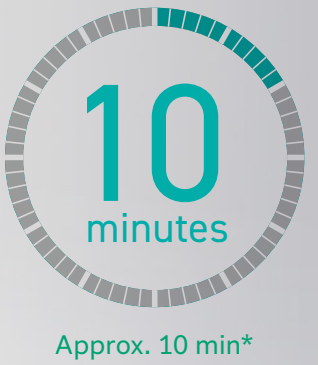
Stress-free testing from setup to confirmation of results

Simple operation: Just set the sample, reagents and consumables into the analyzer.

Just set the sample, reagents and consumables. Test parameters requiring dilution are automatically identified after reagent cartridge set and dilution is performed. Press the start button to start the measurement which takes about 10 minutes.



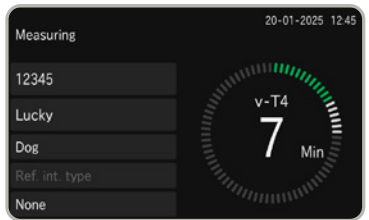
The Auto tips and sample tubes (FUJI Tubes) are also usable in the FUJI DRI-CHEM NX600V / NX700V series clinical chemistry analyzers.



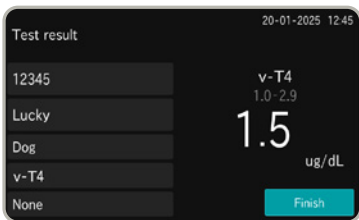
*At 24°C. The measurement time may vary depending on the ambient temperature.

Easy-to-operate, easy-to-view color touch panel

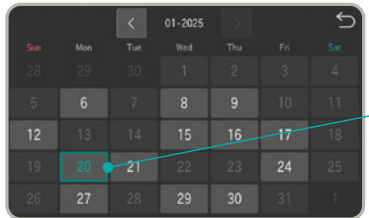
All operation buttons and information related to settings and measurements are displayed on the color touch panel. During measurement, The remaining time is displayed in large digits on the display. Easy to understand at a glance and intuitive to use.



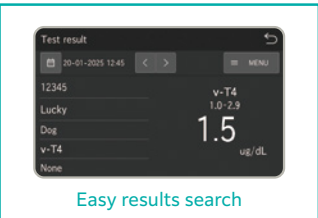
Remaining measurement time is displayed.



Results screen

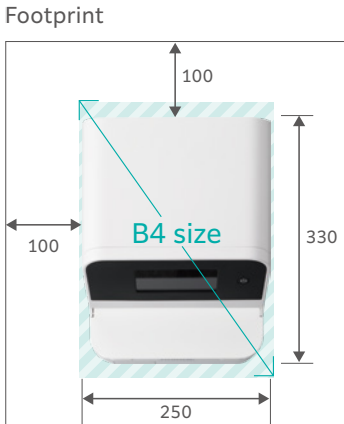


Calendar



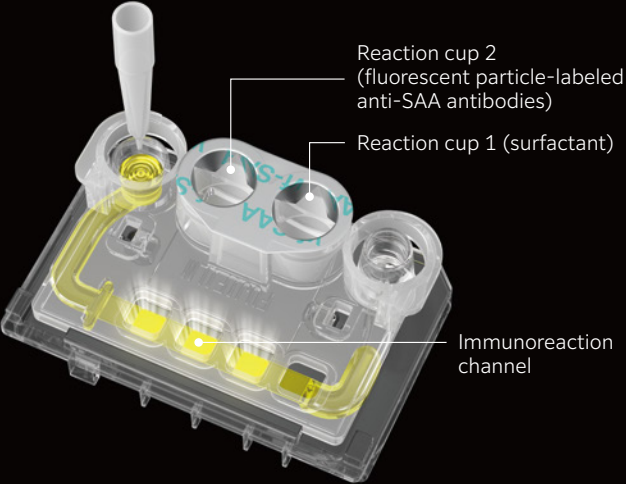
Easy results search

Compact design that fits into any space



High sensitivity and short measurement time are achieved with proprietary technology.

Downsizing and shorter measurement time achieved by the SPF method*1



Reaction cup 2
(fluorescent particle-labeled anti-SAA antibodies)

Reaction cup 1 (surfactant)

Immunoreaction channel

Measurement principle of vf-SAA

1. The sample is dispensed into Reaction cup 1, where it is mixed with surfactant. The mixture from Reaction cup 1 is dispensed into Reaction cup 2, where the fluorescent particle-labeled anti-SAA antibodies react with SAA in the sample. The amount of SAA binding to the fluorescent particle-labeled antibodies increases in proportion to the concentration of SAA in the reaction solution.
2. The reaction solution is dispensed into the immunoreaction channel. Anti-SAA antibody are immobilized on thin gold film placed in the flow channel, and SAA particles are captured by the anti-SAA antibody on the film in proportion to the amount of fluorescent particle-labeled antibody-SAA complex. Laser light is irradiated, and the fluorescent signal obtained by the SPF method is measured and converted to SAA concentration to obtain measurement results.

In immunoassays using antigen-antibody reaction, it is possible to measure even minute molecular markers in a sample. It is important, however, to suppress the influence of substances other than the target antigen. In this system, the target antigen labeled with fluorescent particles is captured on a gold film in the reagent cartridge. Laser light is irradiated from beneath the film, causing only the captured fluorescent particles to emit light, thereby eliminating the need for a cleaning process (B/F separation*2). Thanks to the SPF technology, downsizing and shorter time for the immunoassay have been achieved.

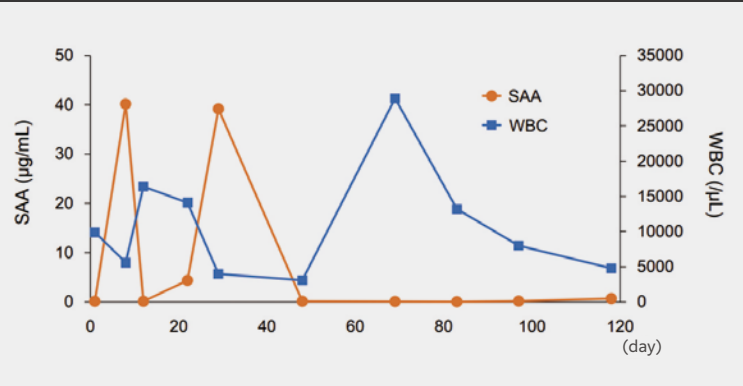
*1 SPF: Surface Plasmon enhanced Fluorescence
*2 B/F separation: Separating substances bound to antibodies from unbound free substances.

[Dedicated reagent]



FUJI DRI-CHEM
IMMUNO AU CARTRIDGE

Objective assessment of inflammation and patient condition using SAA measurement



SAA (serum amyloid A)

“Use in monitoring”


Feline SAA is used to aid in the diagnosis of various diseases and to evaluate treatment effectiveness. It is important to measure SAA levels at the initial consultation and at the start of treatment, and then monitor any changes thereafter in order to utilize this information in clinical practice.


← An example of changes in SAA in cat with visceral mastocytoma
In a case of a cat with low SAA (below the lower limit of the measurement range) before treatment, high SAA was observed during chemotherapy, indicating the possibility of infection due to myelosuppression.
Quote: From the late Dr. Takashi Tamamoto

All test parameters can be measured in serum and plasma

Emergency testing can be performed immediately by using plasma. This analyzer will save you time and effort, ensuring smooth testing.

Applicable samples

Test parameters	Species	Serum	Plasma	Required sample volume
SAA (serum amyloid A)		✓	✓	10 µL
PRG (progesterone)		✓	✓	100 µL
T4 (thyroxine)	 	✓	✓	100 µL
TSH (thyroid-stimulating hormone)		✓	✓	100 µL
COR (cortisol)		✓ *	✓	20 µL (100 µL for basic measurement)
BA (bile acids)	 	✓	✓	100 µL

 Auto dilution *Serum COR measurement can be performed with or without dilution.

July 2025 ver.

No need to prepare reagents

All reagents and materials are already prepared inside the cartridge.

Automated calibration for reagents using attached QR code

All calibrations and measurements are conducted automatically based on the QR code* attached to the bottom of the cartridge, which eliminates the need for lot calibration.

* “QR code” is a registered trademark of DENSO WAVE INC.



Flexibility in sample tubes

0.5 mL and 1.5 mL sample tubes are usable, allowing flexibility in blood collection and testing conditions.