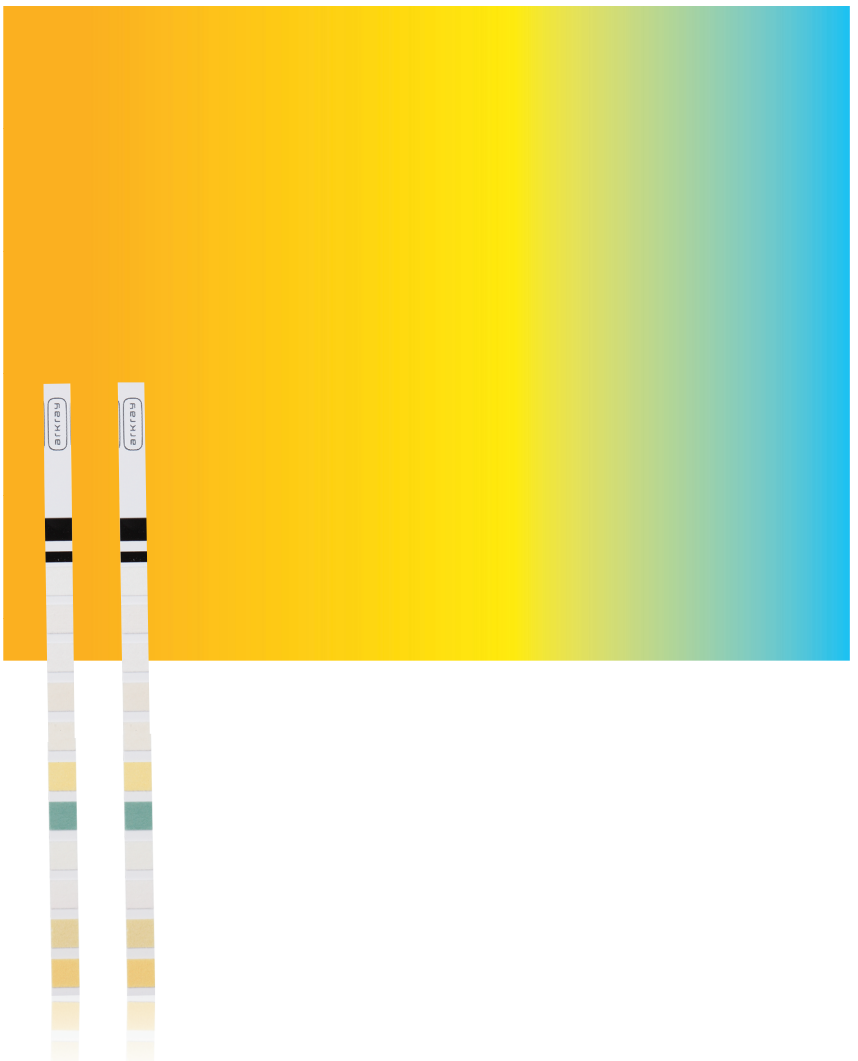
Urinalysis reagent for visual or machine reading

AUTION Sticks

AUTION Sticks 10PA



Creatinine correction is vital for protein measurement with single voided urine.

Conventional urinary tests using single voided urine sometimes undervalue or overvalue urine protein due to increased or reduced urine concentration.

High-precision screening of kidney disease is now possible even with single-voided urine.

Interpretation of Test Results

Glu

Semiqualitative symbol	NORMAL	±	+1	+2	+3	+4
Conc. (mg/dL)		50	100	200	500	1000

Pro

Semiqualitative symbol	NEG.	±	+1	+2	+3	+4
Conc. (mg/dL)		15	30	100	300	1000

Bil

Semiqualitative symbol	NEG.	+1	+2	+3	+4
Conc. (mg/dL)		0.5	2	6	OVER

Uro

Semiqualitative symbol	NORMAL	+1	+2	+3	+4
Conc. (mg/dL)		2	4	8	OVER

pH

Value	5.0	6.0	7.0	8.0	9.0

Bld

Semiqualitative symbol	NEG.	+1	+2	+3
Conc. (mg/dL)		0.06	0.2	1.0

Ket

Semiqualitative symbol	NEG.	±	+1	+2	+3	+4
Conc. (mg/dL)		NORMAL	15	40	80	150

Nit

Semiqualitative symbol	NEG.	+1	+2

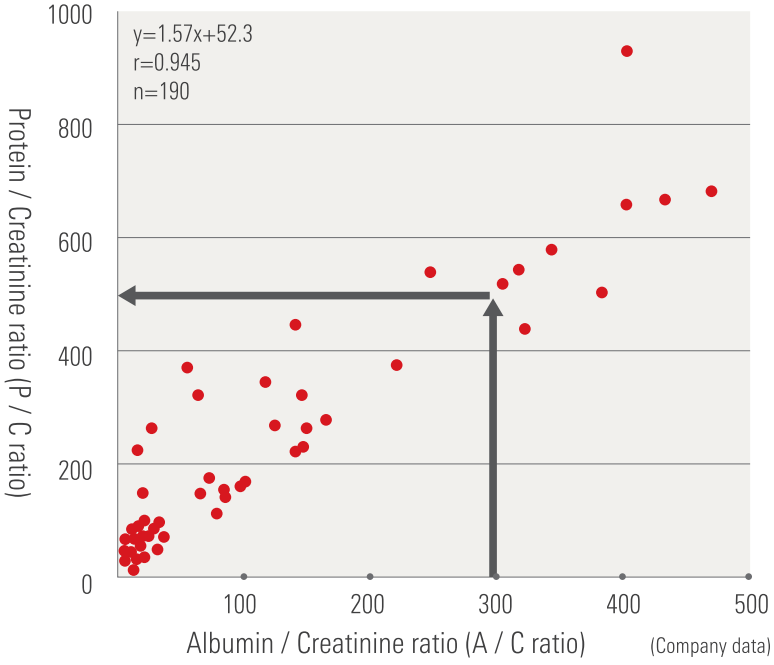
Leu

Conc. (Leu/μL)	NEG.	25	75	250	500

Cre

Conc. (mg/dL)	10	50	100	200	300

Correlation between P/C ratio and A/C ratio in concentration



Protein / Creatinine ratio

Amount required for judgement		Creatinine (mg/dL) 10	50	100	200	300
Protein(mg/dL)	NEG.	Re-analysis	normal	normal	normal	normal
	15	+2	+1	+1	normal	normal
	30	+2	+2	+1	+1	+1
	100	+2	+2	+2	+2	+1
	300	+2	+2	+2	+2	+2
	1000	+2	+2	+2	+2	+2

Specification

Measurement sample	Urine (fresh urine, voided urine)
Measurement item	Glu,Pro,Bil,pH,Bld,Uro,Ket,Nit,Leu,Cre, (Calculated item/ Pro/Cre comparison)
Required sample volume	Approx. 5mL (Dipping method)
Reaction time	60 seconds (Leu:90 sec.)
Reaction temperature	Room temperature
Preservation conditions	At room temperature Avoid direct sunlight
Expiry	24 months

Reaction principle

Test item	Reaction principle
Glucose	Glucose oxidase method
Protein	Protein-error method
Bilirubin	Azo-coupling method
Urobilinogen	Azo-coupling method
pH	pH indicator method
Blood	Activity measurement of pseudoperoxidase in haemoglobin
Ketones	Sodium nitroprusside method
Nitrite	Griess method
Leucocyte	Leucocyte esterase activity method
Creatinine	Chelate competition method

Creatinine

When Creatinine pigment in the urine reacts with palladium compound, blue-green color on test paper changes to yellow. The decreased ratio of blue-green color level is proportional to creatinine concentration.

Competition reaction

Creatinine + Pigment - Pd complex (Blue green) → Pigment (Yellow) + Creatinine - Pd complex

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