

URINALYSIS-POCKETCHEM

Often urinalysis is left out of an 'in-clinic' diagnostic screening test due to time constraints, sample collection challenges and the historic unreliability of dip stick screening. Dip stick screening has an inherent risk in poor colorimetric assessment by the user and subsequent misplacement of semi-quantitative values.

From a 2009 urine chemical analysis study by Antech Laboratories

False positive bilirubin results "Many errors were attributed to manual interpretation of colour changes"

False positive protein measurements "Attributed to known limit of urine strip proteins and misreading of dipstick pad colour changes"

Therefore using a dual wavelength reflectance measure such as the **PU-4010** ensures increased accuracy further enhanced by coloured urine compensation and ambient temperature compensation.

AUTION Sticks URINALYSIS

Semi-quantitative results of several parameters* for urine testing, providing a useful initial analysis panel. All AUTION sticks can be interpreted visually or better still used in conjunction with the [PocketChem UA](#) to minimise misreading of colour changes.

*Note: Nitrite and Leucocyte values in animal urine are generally regarded as useless! Specific Gravity is also known to be very unreliable, hence it's sacrifice in the 10PA test to Creatinine.

AUTION 10PA Urine Sticks \$1.98 per test

With the detection of S.G. replaced with Creatinine to provide a Protein/Creatinine ratio to **assist in the screening** of kidney disease.

AUTION SCREEN Urine Sticks \$6.40 per test

Highly sensitive and specific measurements of Micro-albuminuria and simultaneous Creatinine allow for the ratio calculation to **aid** in the diagnosis of early onset nephropathy.



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	Glu	Pro	Bil	Uro	pH	S.G.	Bld	Ket	Nit	Leu	Cre	Alb
AUTION 10PA	●	●	●	●	●		●	●	●	●	●	
AUTION SCREEN											●	●
Description											Code	Unit

ARKRAY AUTION 10PA	\$198.00 + GST	73626	100 sticks
ARKRAY AUTION SCREEN	\$160.00 + GST	73604	25 sticks

\$1.98 per test added to the blood screen panel (6% increase in average cost per screen)
\$6.40 per test for early renal disease testing

SEMI-QUANTITATIVE SCREENING IS A USEFUL INITIAL TEST TO AID IN THE CONFIRMATION OF THE NEED FOR SAMPLES TO GO TO THE LABORATORY FOR FULL SCREENING!

SERIAL INCREASING BLOOD CREATININE LEVELS (EVEN WITHIN NORMAL RANGE) CAN BE DIAGNOSTIC OF RENAL DISEASE

COMPREHENSIVE SCREENING FOR RENAL DISEASE IS CHEAP!

\$1.98 per test added to the blood screen panel (6% increase in average cost per screen)
\$2.30 per test for individual Creatinine strip on SpotChem
\$7.47 for a SpotChem panel of 6 parameters (includes Creatinine)

See sample images of PocketChem PU-4010 results below-

```
*MEAS No. 0020
ID# 22746
26-10-2012 16:09 10PA 23°C
*****
GLU — mmol/L
*PRO 1+ 0.3 g/L
*URO 1+ 34 umol/L
BIL — umol/L
CRE — 3 g/L
PH 6.0
BLD — mg/L
KET — mmol/L
NIT —
LEU — Leu/uL
*P/C 1+ 200 mg/gCr
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*MEAS No. 0703
ID# 369
05-07-2012 10:50 10PA 20°C
*****
GLU — mmol/L
*PRO 1+ 0.3 g/L
URO NORMAL umol/L
BIL — umol/L
CRE — OVER g/L
PH 6.5
BLD — mg/L
KET — mmol/L
NIT —
*LEU 500 Leu/uL
P/C NORMAL <80 mg/gCr
```

POCKETCHEM™ UA PU-4010 URINALYSIS UNIT

Parameter	Stick Sensitivity Range	Units
Protein Creatinine (P/C) Ratio	Divide the result by 1000 and then evaluate using external laboratory range below.	
Protein	0.15-10.00 150-10,000	g/L mg/L
Creatinine (conversion of mg/dl to g/L, division by 100) (conversion of mg/dl to umol/L multiplication by 88.4)	0.10-3.00 884-26,520	g/L umol/L
Bilirubin	8.55-102.60	umol/L
Blood	0.30-10.00	mg/L
Glucose	2.78-55.50	mmol/L
Ketones	0.28-8.33	mmol/L
Urobilinogen	33.80-135.20	umol/L
pH	5.00-9.00	
Specific Gravity	1.00-1.030	

EXTERNAL LABORATORY RANGES URINE PROTEIN/CREATININE RATIO

Species	Ranges	Units
Feline	< 0.200 Non-proteinuric	Creatinine umol/L Protein/Creatinine Ratio Urine Total Protein g/L
	0.200-0.400 Borderline	
	0.400+ Proteinuric	
Canine	< 0.500 Non-proteinuric	Creatinine umol/L Protein/Creatinine Ratio Urine Total Protein g/L
	0.500-1.00 Borderline	
	1.00+ Glomerular	

Looking for renal disease in a 'prospective' way enables a good test of an excellent sample (fresh) as well as a possible resulting sample to the external laboratory where an excellent test can be made on a good sample. The PU-4010 can indicate the need for further ruling out of bladder inflammation, casts, urolithiasis, infection etc.



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Infection: The protein-creatinine ratio is invalid in the presence of a urinary tract infection. Ratios as high as 40 can be seen with *E. coli* infections. The ratio does not correlate to the number of red or white cells/HPF in these cases. Some cases of urinary tract infections can have normal protein to creatinine ratios so the degree of proteinuria in these cases cannot be predicted from the degree of cystitis. Proteinuria with infection is attributed to leakage of serum protein due to inflammatory-induced changes in vascular permeability which may depend on the severity and nature of the inflammation.



SAVE \$455

**NORMAL RETAIL
\$1450 + GST**

**SPECIAL OFFER
WHILE STOCKS
LAST**

\$995.00 + GST



This unit is free when purchased with a SpotChem SE-1520 electrolyte analyser Special at half price of \$4000.00 + GST